

## Active Recombinant Human FES, GST-tagged

Cat. No. FES-1404H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| <b>Product Overview</b> | Recombinant full-length human FES was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | Sf9 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Protein Length</b>   | Full length                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | <p>FES is a protooncogene that encodes a protein-tyrosine kinase distinct from c-Src, c-Abl and other nonreceptor tyrosine kinases. FES was originally identified as the cellular homolog of several transforming retroviral oncoproteins. FES plays a role in regulating cytoskeletal rearrangements and inside out signalling that accompany receptor ligand, cell matrix and cell-cell interaction. Genetic analysis using transgenic mouse model implicate FES in the regulation of inflammation and innate immunity. FES modulates the innate immune response of macrophages to LPS challenge, in part, by regulating the internalization and down-regulation of the TLR4 receptor complex.</p> |
| <b>Form</b>             | Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Bio-activity</b>     | 56 nmol/min/mg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Mass</b>   | ~125kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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| <b>Purity</b>           | >90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Applications</b>     | Kinase Assay, Western Blot                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Storage</b>          | Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Concentration</b>    | 0.1µg/µl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Gene Name</b>        | FES feline sarcoma oncogene [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Official Symbol</b>  | FES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Synonyms</b>         | FES; feline sarcoma oncogene; feline sarcoma (Snyder Theilen) viral (v fes)/Fujinami avian sarcoma (PRCII) viral (v fps) oncogene homolog; tyrosine-protein kinase Fes/Fps; c fes/fps protein; FPS; Oncogene FES; feline sarcoma virus; p93c-fes; proto-oncogene c-Fes; proto-oncogene c-Fps; Oncogene FES, feline sarcoma virus; proto-oncogene tyrosine-protein kinase Fes/Fps; feline sarcoma/Fujinami avian sarcoma oncogene homolog; feline sarcoma (Snyder-Theilen) viral (v-fes)/Fujinami avian sarcoma (PRCII) viral (v-fps) oncogene homolog; |
| <b>Gene ID</b>          | 2242                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>mRNA Refseq</b>      | NM_001143783                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Protein Refseq</b>   | NP_001137255                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>MIM</b>              | 190030                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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| <b>UniProt ID</b>          | P07332                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Chromosome Location</b> | 15q25-qter                                                                                                                                                                                                                                                                                                                                                               |
| <b>Pathway</b>             | Angiopoietin receptor Tie2-mediated signaling, organism-specific biosystem; Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; Axon guidance, organism-specific biosystem; CRMPs in Sema3A signaling, organism-specific biosystem; Developmental Biology, organism-specific biosystem; IL-3 Signaling Pathway, organism-specific biosystem; |
| <b>Function</b>            | ATP binding; immunoglobulin receptor binding; lipid binding; non-membrane spanning protein tyrosine kinase activity; nucleotide binding; phosphatidylinositol binding; protein tyrosine kinase activity;                                                                                                                                                                 |

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