

Active Recombinant Full Length Human FGR Protein, C-Flag-tagged

Cat. No. FGR-898HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human FGR Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene is a member of the Src family of protein tyrosine kinases (PTKs). The encoded protein contains N-terminal sites for myristylation and palmitoylation, a PTK domain, and SH2 and SH3 domains which are involved in mediating protein-protein interactions with phosphotyrosine-containing and proline-rich motifs, respectively. The protein localizes to plasma membrane ruffles, and functions as a negative regulator of cell migration and adhesion triggered by the beta-2 integrin signal transduction pathway. Infection with Epstein-Barr virus results in the overexpression of this gene. Multiple alternatively spliced variants, encoding the same protein, have been identified.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	FGR activity verified in a biochemical assay: FGR (Gardner-Rasheed feline sarcoma viral (v-fgr) oncogene homolog) activity was measured in a homogeneous time-resolved fluorescent (HTRF®) assay. FGR is a tyrosine kinase that is a member of the Src family of protein tyrosine kinases. Varying concentrations of FGR were added

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to a reaction mix containing ATP and a biotinylated kinase substrate and the reaction mixture was incubated to allow the protein to phosphorylate the substrate. HTRF detection reagents were then added, and the time-resolved fluorescent signal was measured on a Flexstation 3 microplate reader. The time resolved fluorescent signal is expressed as “delta R” or “ΔR” and is a ratio calculated from the fluorescent emission intensities of the donor and acceptor fluorors.

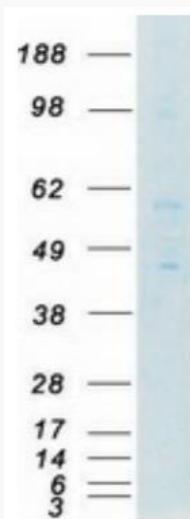
Molecular Mass	59.3 kDa
AA Sequence	MGCVFCKKLEPVATAKEDAGLEGDFRSYGAAADHYGPDPTKARPASSFAHIPNYSNF SSQAINPGFLDSGT IRGVSGIGVTLFIALYDYEARTEDDLTFTKGEKFHILNNTGWDW WEARSLSSGKTGCIPSNNYVAPVDSIQ AEEWYFGKIGRKDAERQLLSPGNPQGAFLI RESETTKGAYSLSIRDWDQTRGDHVKHYKIRKLDMGYYI TTRVQFNSVQELVQHY MEVNDGLCNLLIAPCTIMKPQTLGLAKDAWEISRSSITLERRLTGCGFDVWLG TW NGSTKVAVKTLKPGTMSPKAFLEEAQVMKLLRHDKLVQLYAVVSEEPYIVTEFMCH GSLDLFLKNPE GQDLRLPQLVDMAAQVAEGMAYMERMNYYHRDLRAANILVGERLA CKIADFGLARLIKDDDEYNPCQGSKF PIKWTAPEAALFGRFTIKSDVWSFGILLTELITK GRIPYPGMNKREVLEQVEQGYHMPCPPGCPASLYEA MEQTWRLDPEERPTFEYLQSFLEDYFTSAEPQYQPGDQTTTRTRPLEQKLISEEDLA ANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.

Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Protein Kinase
Protein Pathways	Chemokine signaling pathway
Full Length	Full L.
GENE INFORMATION	
Gene Name	FGR FGR proto-oncogene, Src family tyrosine kinase [Homo sapiens (human)]
Official Symbol	FGR
Synonyms	SRC2; c-fgr; c-src2; p55-Fgr; p58-Fgr; p55c-fgr; p58c-fgr
Gene ID	2268
mRNA Refseq	NM_005248.3
Protein Refseq	NP_005239.1
MIM	164940
UniProt ID	P09769

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Coomassie blue staining of purified FGR protein.

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