

# Recombinant Human C-Ros Oncogene 1, Receptor Tyrosine Kinase, GST-tagged

**Cat. No.** ROS1-1091H    **Lot. No.** (See product label)

## SPECIFICATION

|                          |                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Product Overview</b>  | Recombinant human ROS1 (1883-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.                                                                                                                                                                                                                                                                         |
| <b>Species</b>           | Human                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>            | Sf9 Cells                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>     | 1883-end a.a.                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>       | ROS1 is a proto-oncogene and member of the sevenless subfamily of tyrosine kinase insulin receptor genes. ROS1 is highly-expressed in a variety of tumor cell lines and functions as a growth or differentiation factor receptor. The FIG gene can fuse with the ROS1 gene in glioblastoma cell lines. The resulting ROS1 fusion protein is a constitutively activated tyrosine kinase. |
| <b>Applications</b>      | Kinase Assay; Western Blot                                                                                                                                                                                                                                                                                                                                                              |
| <b>Molecular Weight</b>  | 82 kDa                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Expression System</b> | Sf9 insect cells using baculovirus                                                                                                                                                                                                                                                                                                                                                      |
| <b>Form</b>              | Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1mM PMSF, 25 % glycerol.                                                                                                                                                                                                                                              |

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|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Specific Activity</b> | 640 nmol/min/mg                                                                                                                                                                                                                         |
| <b>Purity</b>            | > 75 %                                                                                                                                                                                                                                  |
| <b>Concentration</b>     | 0.1 ug/ul                                                                                                                                                                                                                               |
| <b>Sequences</b>         | 1883-edd                                                                                                                                                                                                                                |
| <b>Storage</b>           | Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | ROS1 c-ros oncogene 1 , receptor tyrosine kinase [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Official Symbol</b> | ROS1                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Synonyms</b>        | ROS1; c-ros oncogene 1, receptor tyrosine kinase; ROS; MCF3; c-ros-1; EC 2.7.10.1; proto-oncogene tyrosine-protein kinase ROS; OTTHUMP00000017814; OTTHUMP00000017815; proto-oncogene c-Ros-1; v-ros UR2 sarcoma virus oncogene homolog 1; transmembrane tyrosine-specific protein kinase; v-ros avian UR2 sarcoma virus oncogene homolog 1; v-ros UR2 sarcoma virus oncogene homolog 1 (avian); Proto-oncogene tyrosine-protein kinase ROS; Proto-oncogene c-Ros-1 |
| <b>Gene ID</b>         | 6098                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>mRNA Refseq</b>     | NM_002944                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Protein Refseq</b>  | NP_002935                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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| <b>MIM</b>                 | 165020                                                                                                                                        |
| <b>UniProt ID</b>          | P08922                                                                                                                                        |
| <b>Chromosome Location</b> | 6q21-q22                                                                                                                                      |
| <b>Function</b>            | ATP binding; nucleotide binding; protein tyrosine kinase activity; receptor activity; transmembrane receptor protein tyrosine kinase activity |

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