

Active Recombinant Human ROR1, GST-tagged

Cat. No. ROR1-232H Lot. No. (See product label)

SPECIFICATION

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| Product Overview | Recombinant human ROR1(429-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. |
| Species | Human |
| Source | Sf9 Cells |
| ProteinLength | 429-end a.a. |
| Description | ROR1 is a glycosylated type I membrane protein that belongs to the ROR subfamily of cell surface receptors that play a role in the control of most basic cellular processes including cell proliferation, differentiation, migration and metabolism. Many human breast cancers express the ROR1 protein and high-level expression of ROR1 in breast adenocarcinoma is associated with aggressive disease. Silencing expression of ROR1 in human breast cancer cell lines found to express this protein impaired their growth in vitro and also in immune-deficient mice. |
| Form | Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol. |
| Bio-activity | The specific activity of ROR1 was determined to be 0.2 nmol /min/mg |
| Molecular Mass | ~82 kDa |
| Purity | >95% by densitometry |

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| Applications | Kinase Assay, Western Blot |
| Storage | Store product at -70 centigrade. 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. |
| Concentration | 0.1 $\mu\text{g}/\mu\text{l}$ |

GENE INFORMATION

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|----------------------------|--|
| Gene Name | ROR1 receptor tyrosine kinase-like orphan receptor 1 [Homo sapiens] |
| Official Symbol | ROR1 |
| Synonyms | ROR1; receptor tyrosine kinase-like orphan receptor 1; NTRKR1; tyrosine-protein kinase transmembrane receptor ROR1; neurotrophic tyrosine kinase receptor-related 1; neurotrophic tyrosine kinase, receptor-related 1; dJ537F10.1; MGC99659; |
| Gene ID | 4919 |
| mRNA Refseq | NM_001083592 |
| Protein Refseq | NP_001077061 |
| MIM | 602336 |
| UniProt ID | Q01973 |
| Chromosome Location | 1p32-p31 |

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Pathway

Nuclear Receptors, organism-specific biosystem;

Function

ATP binding; Wnt-protein binding; kinase activity; nucleotide binding; receptor activity; transmembrane receptor protein tyrosine kinase activity;

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