

Active Recombinant Human ROR1, GST-tagged

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

SPECIFICATION

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 µg/µl
GENE INFORMATION	
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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