ROR1 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	ROR1, Recombinant Protein
Full Product Name	Recombinant Human ROR1 Protein (C-Fc)
Product Gene Name	ROR1 recombinant protein
Product Synonym Names	IL17Rinterleukin-17 receptor A; interleukin 17 receptor A; IL17RA; CD217; Inactive tyrosine-protein kinase transmembrane receptor ROR1; Neurotrophic tyrosine kinase
Sequence	Gln30-Glu4 03
Host	Human Cells
Form/Format	Lyophilized from a 0.2 mum filtered solution of PBS, pH7.4.
Purity/Purification	>95% as determined by reducing SDS-PAGE.
Preparation and Storage	Lyophilized protein should be stored at < -20 degree C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7 degree C for 2-7 days. Aliquots of reconstituted samples are stable at < -20 degree C for 3 months.
Molecular Weight	Molecular Mass: 68.9kDa Actual Protein Molecular Mass: 90-110kDa
OMIM	602336
3D Structure	ModBase 3D Structure for Q01973
Species	Human
Endotoxin	< 1.0 EU per mug as determined by the LAL method.
Fusion Tag	C-Fc
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ROR1 recombinant protein	Protein Construction: Recombinant Human ROR1 is produced by our mammalian expression system and the target gene encoding Gln30-Glu403 is expressed with a Fc tag at the C-terminus. Background: CD217, also known as Interleukin-17 receptor A, is a T cell expressed pleotropic cytokine with 866 amino acids in length. CD217 functions as receptors for IL17A and IL17F, it binds to IL17A with higher affinity than to IL17F and binds IL17A and IL17F homodimers as part of a heterodimeric complex with IL17RC. It also binds heterodimers formed by IL17A and IL17F as part of a heterodimeric complex with IL17RC. The activation of IL17RA would lead to induction of expression of inflammatory chemokines and cytokines such as CXCL1, CXCL8/IL8 and IL6. The signaling events of IL 17 includes activation of NF kappa B and JNK, and require TNF receptor associated factors 6 (TRAF6) in the signaling pathway.
Other Notes	Small volumes of ROR1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ROR1 purchase	MBS2557257 is a recombinant protein targeting ROR1. Also known as Recombinant Human ROR1 Protein (C-Fc). Host: Human Cells.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ROR1. It may not necessarily be applicable to this product.

NCBI GI #	118572711

NCBI GeneID	4919
NCBI Accession #	Q01973.2
UniProt Primary Accession #	Q01973
UniProt Related Accession #	Q01973
NCBI Official Full Name	Inactive tyrosine-protein kinase transmembrane receptor ROR1
NCBI Official Synonym Full Names	receptor tyrosine kinase like orphan receptor 1
NCBI Official Symbol	ROR1
NCBI Official Synonym Symbols	NTRKR1; dJ537F10.1
UniProt Protein Name	Tyrosine-protein kinase transmembrane receptor ROR1
UniProt Synonym Protein Names	Neurotrophic tyrosine kinase, receptor-related 1
Protein Family	Inactive tyrosine-protein kinase transmembrane receptor
UniProt Gene Name	ROR1
UniProt Synonym Gene Names	NTRKR1
UniProt Entry Name	ROR1_HUMAN
NCBI Protein Information	inactive tyrosine-protein kinase transmembrane receptor ROR1
NCBI Summary for ROR1	This gene encodes a receptor tyrosine kinase-like orphan receptor that modulates neurite growth in the central nervous system. The encoded protein is a glycosylated type I membrane protein that belongs to the ROR subfamily of cell surface receptors. It is a pseudokinase that lacks catalytic activity and may interact with the non-canonical Wnt signalling pathway. This gene is highly expressed during early embryonic development but expressed at very low levels in adult tissues. Increased expression of this gene is associated with B-cell chronic lymphocytic leukaemia. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jun 2012]
UniProt Comments for ROR1	ROR1: Tyrosine-protein kinase receptor whose role is not yet clear. Expressed strongly in human heart, lung and kidney, but weakly in the CNS. Isoform Short is strongly expressed in fetal and adult CNS and in a variety of human cancers, including those originating from CNS or PNS neuroectoderm. Belongs to the protein kinase superfamily. Tyr protein kinase family. ROR subfamily. 3 isoforms of the human protein are produced by alternative splicing. Protein type: EC 2.7.10.1; Protein kinase, tyrosine (receptor); Membrane protein, integral; Protein kinase, TK; Kinase, protein; TK group; Ror family Chromosomal Location of Human Ortholog: 1p31.3 Cellular Component: integral to plasma membrane; cytoplasm; plasma membrane; receptor complex Molecular Function: Wnt-protein binding; protein binding; transmembrane receptor protein tyrosine kinase activity; ATP binding Biological Process: peptidyl-tyrosine phosphorylation; transmembrane receptor protein tyrosine kinase signaling pathway
Research Articles on ROR1	**1.** Oral small molecule inhibitor of the tyrosine kinase ROR1 (KAN0439834) induced significant apoptosis.
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