ROR1 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	ROR1, Recombinant Protein
Full Product Name	Human ROR1 Protein (ECD, His Tag)
Product Gene Name	ROR1 recombinant protein
Product Synonym Names	NTRKR1
Host	Human Cells
Form/Format	Lyophilized from sterile PBS, pH 7.4
Purity/Purification	> 95 % as determined by SDS-PAGE.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -70 degree C
Molecular Weight	43,826 Da
OMIM	M97675 mRNA
3D Structure	ModBase 3D Structure for Q01973
Predicted N Terminal	Gln 30
Endotoxin	< 1.0 EU per mug protein as determined by the LAL method.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Application Notes for ROR1 recombinant protein	The recombinant human ROR1 consists of 385 amino acids and predicts a molecular mass of 43.4 kDa.
Related Product Information for ROR1 recombinant protein	A DNA sequence encoding the human ROR1 (NP_005003.2) (Met1-Glu403) was expressed with a polyhistidine tag at the C-terminus.
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	MBS2545139 is a recombinant protein targeting ROR1. Also known as Human ROR1 Protein (ECD, His Tag). 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 #	134152725
NCBI GeneID	4919
NCBI Accession #	NP_005003.2
UniProt Primary Accession #	Q01973
UniProt Secondary Accession #	Q5VVX6; Q66K77; Q92776
UniProt Related Accession #	Q01973
GenBank Nucleotide #	NM_005012.3
NCBI Official Full Name	inactive tyrosine-protein kinase transmembrane receptor ROR1 isoform 1

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	Inactive 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
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; Kinase, protein; Membrane protein, integral; Protein kinase, TK; Protein kinase, tyrosine (receptor); Ror family; TK group Chromosomal Location of Human Ortholog: 1p31.3 Cellular Component: integral to plasma membrane; plasma membrane; receptor complex Molecular Function: protein binding; transmembrane receptor protein tyrosine kinase activity; Wnt-protein binding
Research Articles on ROR1	**1.** Ror1 is crucial for spiral ganglion neurons to innervate auditory hair cells. Impairment of ROR1 function largely affects development of the inner ear and hearing in humans and mice.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.