Recombinant Human ROR1 Protein (aa 453-783, His & GST Tag)

Catalog No. PKSH030321

Note: Centrifuge before opening to ensure complete recovery of vial contents.

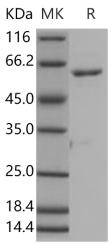
Description

Synonyms	dJ537F10.1;NTRKR1
Species	Human
Expression Host	Baculovirus-Insect Cells
Sequence	Met 453-Asn783
Accession	AAA60275.1
Calculated Molecular Weight	65.3 kDa
Observed molecular weight	63 kDa
Tag	N-His-GST
Bioactivity	The specific activity was determined to be 0.3 nmol/min/mg using MBP as substrate.

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
Formulation	Supplied as sterile solution of 20mM Tris, 500mM NaCl, 2mM GSH, 3mM DTT, 10% glycerol, pH 7.4
Reconstitution	Not Applicable

Data



> 90 % as determined by reducing SDS-PAGE.

Background

Receptor tyrosine kinase-like orphan receptor 1 (ROR1), also known as neurotrophic tyrosine kinase, it is a member of the ROR family within receptor tyrosine kinases (RTK) superfamily. Human ROR1 is a type I transmembrane protein with 937 amino acids (aa) in length. It contains a 29 aa signal sequence, a 377 aa extracellular domain (ECD), a 21 aa transmembrane segment, and a 510 aa cytoplasmic region. ROR1 expressed strongly in human heart, lung and kidney, but

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weakly in the CNS. At developmental stage, it expressed at high levels during early embryonic development. ROR1 has been shown to have very low kinase activity in vitro and is unlikely to function as a tyrosine kinase in vivo. It may act as a receptor for wnt ligand WNT5A which may result in the inhibition of WNT3A-mediated signaling.

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