

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

Catalog Number: PKSH030321

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

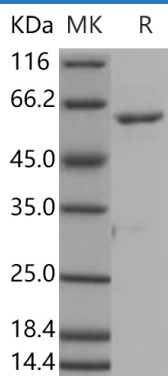
Description

Species	Human
Source	Baculovirus-Insect Cells-derived Human ROR1 protein Met 453-Asn783, with an N-terminal His & GST
Calculated MW	65.3 kDa
Observed MW	63 kDa
Accession	AAA60275.1
Bio-activity	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.
Concentration	Subject to label value.
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

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 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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