

Recombinant Human ROR1 Protein (His Tag)

Catalog No. PKSH033647

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

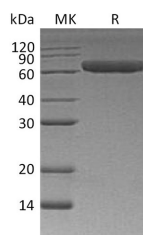
Description

Synonyms	Inactive tyrosine-protein kinase transmembrane receptor ROR1;Neurotrophic tyrosine kinase;receptor-related 1;ROR1;NTRKR1
Species	Human
Expression Host	HEK293 Cells
Sequence	Gln30-Glu403
Accession	Q01973
Calculated Molecular Weight	42.8 kDa
Observed molecular weight	60-80 kDa
Tag	C-His
Bioactivity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % 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

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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.