Recombinant Human ROR1 Protein (His Tag)

Catalog Number: 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
Sequence
Gln30-Glu403
Accession
Q01973
Calculated Molecular Weight
Observed molecular weight
Tag
HEK293 Cells
Gln30-Glu403
42.8 kDa
60-80 kDa
C-His

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.

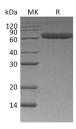
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

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 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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