



Recombinant Protein Technical Manual

Recombinant Human ROR2 Protein (His Tag)

RPES3876

Product Data:

Product SKU: RPES3876

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: Q01974

Protein Information:

Molecular Mass: 42.2 kDa

AP Molecular Mass: 50-60 kDa

Tag: C-His

Bio-activity:

Purity: > 95% as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°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, pH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Tyrosine-protein kinase transmembrane receptor ROR2; Neurotrophic tyrosine kinase, receptor-related 2; ROR2; NTRKR2

Immunogen Information:

Sequence: Glu34-Gly403

Background:

Receptor Tyrosine Kinase-like Orphan Receptor 2 (ROR2) belongs to the protein kinase superfamily, Tyrosine protein kinase family and ROR subfamily. It is a member of the ROR family of receptor tyrosine kinases and is important for skeletal development, including bone and cartilage formation, as well as for the development of the central nervous system. ROR2 promotes osteogenesis, binds YWHAB and interacts with WTIP. ROR2 is broadly expressed during embryonic development and can be found in cells of all three germ layers as well as in most organ tissues. Activation of ROR2 signaling promotes cellular proliferation, differentiation, cell polarization, and migration. ROR2 has also been shown to have very little tyrosine kinase activity *in vitro* and may act as a receptor for Wnt ligand WNT5A which may result in the inhibition of WNT3A-mediated signaling.