Genomeditech (Shanghai) Co.,Ltd.
Order: 021-68455258/50432826/50432825
Toll-free: 400 627 9288
Email: service@genomeditech.com

Human ROR1 Protein; hFc Tag

Product Information

Product Name	Human ROR1 Protein; hFc Tag
Storage temp	Store at ≤ -70℃, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Catalog# / Size	**GM-88197RP-100 / 100 μg** **GM-88197RP-1000 / 1 mg**

Protein Information

Alternative Names	ROR1, NTRKR1
Source	Human ROR1 Protein; hFc Tag (GM-88197RP) is expressed from human 293 cells (HEK-293). It contains AA Gln 30 - Glu 403 (Accession # Q01973-1). This protein carries a human IgG1 Fc tag at the C-terminus.
Purity	> 95% as determined by SDS-PAGE
Endotoxin	< 1 EU/μg, determined by LAL gel clotting assay
Predicted Mol Mass	67.9 KDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.
Description	ROR1 (receptor tyrosine kinase-like orphan receptor 1) is a RTK-like protein with no known ligand. It is highly expressed in early development, lower in most adult tissues, and upregulated in some cancers. The extracellular region binds ligands (if any) and a transmembrane domain anchors the protein; the intracellular region has a kinase-like domain. Its catalytic activity is debated but it can regulate proliferation, migration, and survival through downstream signaling, playing roles in immune and developmental pathways and attracting cancer therapy interest. ROR1 engages non-canonical Wnt signaling and downstream PI3K/AKT and MAPK pathways. Interactions with ligands like WNT5A or other membrane proteins activate Rho GTPases and Vav/Rac1, promoting cytoskeletal changes and migration, and can influence cell cycle and survival signals. Despite debated kinase activity, substrate selectivity or co-regulator interactions can modulate AKT and ERK signaling, affecting proliferation, drug resistance, and stem-like properties. Effects are context-dependent, varying by cell type and environment.

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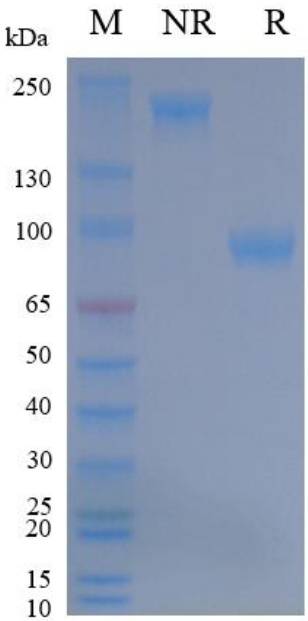
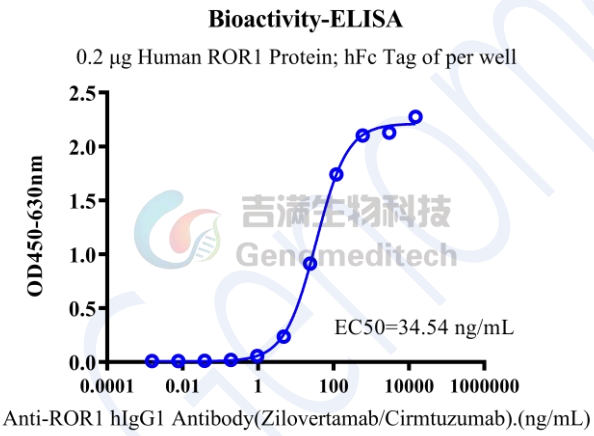
SDS-PAGE



On SDS-PAGE under nun-reducing (NR) condition and reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA



Human ROR1 Protein; hFc Tag (Catalog # GM-88197RP) was immobilized at 2 μg/ml (100 μL/well). Increasing concentrations of Anti-ROR1 hIgG1 Antibody (Zilovertamab/Cirmtuzumab) (Catalog # GM-48031AB) were added.

Version:4.0