Data Sheet (Cat.No.TMPK-00413)

TargetMol

ROR1 Protein, Human/Cynomolgus/Rhesus macaque, Recombinant (His & Avi)

General Information

Synonyms:	ROR1;NTRKR1;dJ537F10.1
Protein Construction:	Gln30-Glu403
Species:	Human,Cynomolgus,Rhesus
Expression Host:	HEK293 Cells
Accession:	Q01973-1
Molecular Weight:	44.9 kDa (predicted). Due to glycosylation, the protein migrates to 55-70 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human/Cynomolgus/Rhesus macaque ROR1, His Tag at 1μg/ml (100μl/Well) on the plate. Dose response curve for Anti-ROR1 Antibody, hFc Tag with the EC50 of 2.7ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

ROR1 (Receptor tyrosine kinase-like orphan receptor 1), also known as neurotrophic tyrosine kinase receptor-related 1 (NTRKR1), is a member of the ROR family within receptor tyrosine kinases (RTK) superfamily. Two ROR family members (ROR1 and ROR2) have been identified and are characterized by the intracellular tyrosine kinase domains, highly related to those of the Trk-family receptor tyrosine kinases, and by the extracellular Frizzled-like

cysteine-rich domains and kringle domains, which are common to receptors of the Wnt family members.

Reference

Zhang S, et al. Ovarian cancer stem cells express ROR1, which can be targeted for anti-cancer-stem-cell therapy[J]. Proceedings of the National Academy of Sciences, 2014, 111(48):17266-7

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