Data Sheet (Cat.No.TMPK-00579)

TargetMol

ROR2 Protein, Human, Recombinant (hFc)

General Information

Synonyms:	BDB;NTRKR2;BDB1;ROR2
Protein Construction:	Val34-Gly403
Species:	Human
Expression Host:	HEK293 Cells
Accession:	A1L4F5
Molecular Weight:	68 kDa (predicted). Due to glycosylation, the protein migrates to 80-110 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human ROR2, hFc Tag at 0.5μg/ml (100μl/well) on the plate. Dose response curve for Biotinylated Anti-ROR2 Antibody, hFc Tag with the EC50 of 10.1ng/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

ROR2 (Receptor Tyrosine Kinase-like Orphan Receptor 2) 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. Mature human ROR2 contains a 369 amino acid (aa) extracellular domain (ECD) and a 518 aa cytoplasmic tail containing an tyrosine kinase domain.

Reference

Debebe Z , Rathmell W K. Ror2 as a Therapeutic Target in Cancer[J]. Pharmacology & Therapeutics, 2015, 150:143-148.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481