Data Sheet (Cat.No.TMPK-01376)

TargetMol

TROP-2 Protein, Mouse, Recombinant (aa 25-270, His)

General Information

Synonyms:	TACD2;gp50;TACSTD2;M1S1;TROP-2;GA733-1;T16;EGP-1;EGP1;TROP2
Protein Construction:	Gln25-Gly270
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	Q8BGV3.1
Molecular Weight:	28.8 kDa (predicted). Due to glycosylation, the protein migrates to 48-55 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
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

Trop-2,also known as epithelial glycoprotein-1 antigen (EGP-1),is a protein that in humans is encoded by the TACSTD2 gene.Mutations of this gene result in gelatinous drop-like corneal dystrophy, an autosomal recessive disorder characterized by severe corneal amyloidosis leading to blindness.

Reference

Gu QZ, et al. TROP2 promotes cell proliferation and migration in osteosarcoma through PI3K/AKT signaling. Mol Med Rep. 2018;18(2):1782-1788. doi:10.3892/mmr.2018.9083.

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