Data Sheet (Cat.No.TMPY-04003)

TargetMol

UNC5B Protein, Rat, Recombinant (hFc)

General Information

Synonyms:	unc-5 homolog B (C. elegans)
Protein Construction:	A DNA sequence encoding the rat UNC5B (NP_071543.1) (Met1-Asp373) was expressed with the Fc region of human IgG1 at the C-terminus. Predicted N terminal: Gly 27
Species:	Rat
Expression Host:	HEK293 Cells
Accession:	O08722
Molecular Weight:	65.7 kDa (predicted); 72-90 kDa (reducing condition, due to glycosylation)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85 % as determined by SDS-PAGE
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, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

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

The netrin-1 receptor, UNC-5 Homology B, or UNC5B plays vital roles in angiogenesis, inflammation, embryonic development and carcinogenesis. Overexpression of UNC5B human colon epithelial cells suppressed dextran sodium sulfate, or DSS-induced apoptosis and caspase-3 activity. Besides, is a potential anti-neoplastic target in bladder cancer progression and inflammatory arthritis.

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