Data Sheet (Cat.No.TMPY-04271)

TargetMol

Frizzled 6 Protein, Human, Recombinant (His)

General Information

Synonyms:	FZ6;frizzled class receptor 6;FZ-6;NDNC10;HFZ6
Protein Construction:	A DNA sequence encoding the human FZD6 (NP_003497.2) (Met1-Val153) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: His 19
Species:	Human
Expression Host:	HEK293 Cells
Accession:	O60353
Molecular Weight:	17.1 kDa (predicted)

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:	> 95 % 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.

Shipping:

In general, Lyophilized powders are shipping with blue ice.

Protein Background

FZD6 plays a pivotal role in the growth and guidance of the nail plate in humans by acting as a molecular switch between different Wnt pathways. Inherited isolated nail anomaly manifesting with onychauxis and onycholysis is a rare condition, caused by mutations in the gene FZD6, encoding membrane-bound Wnt receptor protein. The overexpression of FZD6 may play an important role in the development of Colorectal cancer (CRC). FZD6 repressed gastric cancer cell proliferation and migration via activating non-canonical wnt pathway. FZD6 plays crucial roles

in human tumorigenesis.

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