

CD133/PROM1 Protein, Mouse, Recombinant (His & SUMO)

General Information

Synonyms:	Prominin-like protein 1;Prom1;Antigen AC133 homolog;Prom;Prominin-1;CD133;Proml1
Protein Construction:	509-794 aa
Species:	Mouse
Expression Host:	E. coli
Accession:	O54990
Molecular Weight:	48.5 kDa (predicted)
AA Sequence:	GANVEKLLCEPYENKLLQVLDTPYLLKEQWQFYLSGMLFNNDINMTFEQVYRDCKRGRGIYAAFQLENVV NVSDHFNIDQISENINTELENLNVNIDSIELLDNTGRKSLEDAHSGIDTIDYSTYLKETEKSPTEVNLLTFASTLE AKANQLPEGKPKQAFLLDVQNIQIRAIHQHLLPPVQQLNLTQRQSVWTLQQTSNKLPEKVKKILASLDSVQHFLT NNVSLVIGETKKFGKTILGYFEHYLHWVFYAITEKMTSCKPMATAMDSAVNGILCGYVADPLN

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:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

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:

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

May play a role in cell differentiation, proliferation and apoptosis. Binds cholesterol in cholesterol-containing plasma membrane microdomains and may play a role in the organization of the apical plasma membrane in epithelial cells. During early retinal development acts as a key regulator of disk morphogenesis. Involved in regulation of MAPK and Akt signaling pathways. In neuroblastoma cells suppresses cell differentiation such as

neurite outgrowth in a RET-dependent manner.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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