

Gremlin-1 Protein, Rat, Recombinant (His & Myc)

General Information

Synonyms:	Cysteine knot superfamily 1, BMP antagonist 1;Grem1;Down-regulated in Mos-transformed cells protein;Drm;Gremlin-1;Cktsf1b1
Protein Construction:	25-184 aa
Species:	Rat
Expression Host:	HEK293 Cells
Accession:	O35793
Molecular Weight:	22.2 kDa (predicted)
AA Sequence:	KKKGSQGAIPPPDKAQHNDSEQTQSPQPGRSRTRGRGQGRGTAMPGEEVLESSQEALHVTERKYLKRDWC KTQPLKQTIHEEGCNSRTIINRFCYGCNSFYIPRHIRKEEGSFQSCSFCKPKKFTTMMVTLNCPQLPPTKKKR VTRVKQCRCISIDLD

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:	> 85% 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

Cytokine that may play an important role during carcinogenesis and metanephric kidney organogenesis, as a BMP antagonist required for early limb outgrowth and patterning in maintaining the FGF4-SHH feedback loop. Down-regulates the BMP4 signaling in a dose-dependent manner. Antagonist of BMP2; inhibits BMP2-mediated differentiation of osteoblasts (in vitro). Acts as inhibitor of monocyte chemotaxis. Can inhibit the growth or viability

of normal cells but not transformed cells when is overexpressed.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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