

#### Full-Length

# GREM1 (Human) Recombinant Protein (P01)

Catalog # H00026585-P01 Size 25 ug, 10 ug

## Applications



Specification	
Product Description	Human GREM1 full-length ORF (NP_037504.1, 1 a.a 184 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MSRTAYTVGALLLLLGTLLPAAEGKKKGSQGAIPPPDKAQHNDSEQTQSPQQPGSRNRGRGQGR GTAMPGEEVLESSQEALHVTERKYLKRDWCKTQPLKQTIHEEGCNSRTIINRFCYGQCNSFYIPRHI RKEEGSFQSCSFCKPKKFTTMMVTLNCPELQPPTKKKRVTRVKQCRCISIDLD
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	47.1
Interspecies Antigen Sequence	Mouse (97); Rat (98)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCI, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.



Note

Best use within three months from the date of receipt of this protein.

# Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — GREM1	
Entrez GenelD	26585
GeneBank Accession#	<u>NM_013372.5</u>
Protein Accession#	<u>NP_037504.1</u>
Gene Name	GREM1
Gene Alias	CKTSF1B1, DAND2, DRM, GREMLIN, IHG-2, MGC126660, PIG2
Gene Description	gremlin 1, cysteine knot superfamily, homolog (Xenopus laevis)
Omim ID	<u>603054</u>
Gene Ontology	<u>Hyperlink</u>
Gene Summary	This gene encodes a member of the BMP (bone morphogenic protein) antagonist family. Like BM Ps, BMP antagonists contain cystine knots and typically form homo- and heterodimers. The CAN (cerberus and dan) subfamily of BMP antagonists, to which this gene belongs, is characterized by a C-terminal cystine knot with an eight-membered ring. The antagonistic effect of the secreted gly cosylated protein encoded by this gene is likely due to its direct binding to BMP proteins. As an a ntagonist of BMP, this gene may play a role in regulating organogenesis, body patterning, and tis sue differentiation. In mouse, this protein has been shown to relay the sonic hedgehog (SHH) sign al from the polarizing region to the apical ectodermal ridge during limb bud outgrowth. [provided by RefSeq
Other Designations	cysteine knot superfamily 1, BMP antagonist 1 down-regulated in Mos-transformed cells gremlin 1 -like protein gremlin-1 increased in high glucose-2 proliferation-inducing gene 2



### Disease

- Breast cancer
- Breast Neoplasms
- <u>Colorectal Neoplasms</u>
- Diabetic Nephropathies
- Genetic Predisposition to Disease