

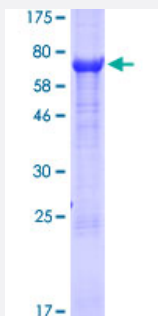
Full-Length

GDF2 (Human) Recombinant Protein (P01)

Catalog # H00002658-P01

Size 10 ug, 25 ug

Applications



Specification

Product Description

Human GDF2 full-length ORF (NP_057288.1, 1 a.a. - 429 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MCPGALWVALPLLSLLAGSLQGKPLQSWGRGSAGGNAHSPLGVPGGGLPEHTFNLKMFLENVK
VDFLRSLNLSGVPSQDKTRVEPPQYIMIDLYNRYTSDKSTTPASNIVRSFSMEDAISITATEDFPFQK
HILLFNISIPRHEQITRAELRLYVSCQNHVDPSHDLKGSVVYDVLGDGDAWDSATETKTFLVSQDIQ
DEGWETLEVSSAVKRWVRSDSTKSKNKLEVTVESHRKGCDTLDISVPPGSRNLPFFVVFSDNH
SSGKETRLELREMISHEQESVLKKLSKDGSTEAGESSHEEDTDGHVAAGSTLARRKRSAGAGS
HCQKTSLRVNFEDIGWDSWIIAPKEYEAYECKGGCFFPLADDVTPTKHAMQTLVHLKFPTKVGKA
CCVPTKLSPISVLYKDDMGVPTLKYHYEGMSVAECGCR

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

73.7

Interspecies Antigen Sequence

Mouse (80); Rat (80)

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-HCl, 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 — GDF2

Entrez GeneID	2658
GeneBank Accession#	NM_016204.1
Protein Accession#	NP_057288.1
Gene Name	GDF2
Gene Alias	BMP-9, BMP9
Gene Description	growth differentiation factor 2
Omim ID	605120
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the bone morphogenetic protein (BMP) family and the TGF-beta superfamily. This group of proteins is characterized by a polybasic proteolytic processing site which is cleaved to produce a mature protein containing seven conserved cysteine residues. The members of this family are regulators of cell growth and differentiation in both embryonic and adult tissues. Studies in rodents suggest that this protein plays a role in the adult liver and in differentiation of cholinergic central nervous system neurons. [provided by RefSeq]
Other Designations	OTTHUMP00000019538 bone morphogenetic protein 9

Publication Reference

- [BMP10 expression in the adult rat central nervous system.](#)

Chikara Ogawa, Sumiko Mikawa, Shuo Li, Yutaro Hayashi, Kazuma Masumoto, Kohji Sato.

Journal of Chemical Neuroanatomy 2022 Feb; 121:102084.

Application: ELISA, Rat, Rat brain

Disease

- [Alzheimer Disease](#)
- [Genetic Predisposition to Disease](#)
- [Liver Cirrhosis](#)
- [Mental Disorders](#)
- [Obesity](#)
- [Ovarian Failure](#)
- [Polycystic Ovary Syndrome](#)
- [Puberty](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)