

Recombinant Mouse GDF2 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51988

Size: 10ug, 100ug

Protein Name: Growth/differentiation factor 2 (GDF-2) (Bone morphogenetic protein 9) (BMP-9)

Synonym: Gdf2, Bmp9

UniProt ID: Q9WV56

UniProt Link: www.uniprot.org/uniprotkb/Q9WV56/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 428 AA

Molecular Weight: 48 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MSPGAFRVALLPLFLLVCVTQQKPLQNWEQASPGENAHSSLGLSGAGEEGVFDLQMFLENMKVDF
LRSLNLSGIPSQDKTRAEPQYIMIDLYNRYTTDKSSTPASNIVRSFSVEDAISTAATEDFPFQKHILIFN
ISIPRHEQITRAELRLYVSCQNDVDSTHGLEGSMVYDVLEDSETWDQATGKTFLVSQDIRDEGWE
TLEVSSAVKRWVRADSTTNKNKLEVTVQSHRESCDTLDISVPPGSKNLPFFVVFVSNDRSNGTKETRL
ELKEMIGHEQETMLVKTAKNAYQVAGESQEEEGLDGYTAVGPLLARRKRSTGASSHCQKTSLRVNF
EDIGWDSWIIAPKEYDAYECKGGCFFPLADDVTPTKHAIVQTLVHLKFPTKVGKACCVPTKLSPISILY
KDDMGVPTLKYHYEGMSVAECGCR

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Growth/differentiation factor 2 (GDF-2) (Bone morphogenetic protein 9) (BMP-9) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Potent circulating inhibitor of angiogenesis (By similarity). Signals through the type I activin receptor ACVRL1 but not other Alks (PubMed:25751889). Signaling through SMAD1 in endothelial cells requires TGF-beta coreceptor endoglin/ENG (PubMed:23300529).

Subcellular Localization: Secreted .

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.