

Recombinant Mouse BMP8B Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51475

Size: 10ug, 100ug

Protein Name: Bone morphogenetic protein 8B (BMP-8B)

Synonym: Bmp8b

UniProt ID: P55105

UniProt Link: www.uniprot.org/uniprotkb/P55105/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 399 AA

Molecular Weight: 45 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MAARPGLLWLLGLALCVLGGGHLSHPPHVFPQRRLLGVREPRDMQREIREVLGLPGRPRSRAPVGA
AQQPASAPLFMLDLYRAMTDDSGGGTPQPHLDRADLIMS FVNIVERDRTLGYQEPHWKEFHFDLTQ
IPAGEAVTAAEFRIYKEPSTHPLNTTLHISMFEVVQEHSNRESDLFFLDLQTLRSGDEGWLVLDITAAS
DRWLLNHHKDLGLRLYVETEDGHSIDPGLAGLLGRQAPRSRQPFMVGFFRANQSPVRAPRTARPLK
KKQLNQINQLPHSNKHLGILDDGHGSHGREVCRRHELYVSFRDLGWLDSDVIAPQGYSAYYCAGECI
YPLNSCMNSTNHATMQALVHLMKPDII PKVCCVPTELSAISLLYYDRNNNVILRRERNM VVQACGCH

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 Bone morphogenetic protein 8B (BMP-8B) 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: Induces cartilage and bone formation. May be the osteoinductive factor responsible for the phenomenon of epithelial osteogenesis. Plays a role in calcium regulation and bone homeostasis (By similarity). Involved in the generation of primordial germ cells; this function involves Bmp4 in a synergistic manner though separate receptor complexes seem to be involved. Required for the initiation and maintenance of spermatogenesis. Signaling protein involved in regulation of thermogenesis and energy balance. Proposed to increase the peripheral response of brown adipose tissue (BAT) to adrenergic stimulation while acting centrally in the hypothalamus to increase sympathetic output to BAT.

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.