

Recombinant Mouse NOGG Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51520

Size: 10ug, 100ug

Protein Name: Noggin

Synonym: Nog

UniProt ID: P97466

UniProt Link: www.uniprot.org/uniprotkb/P97466/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 232 AA

Molecular Weight: 26 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MERCPSLGVTLIALVVLGLRAAPAGGQHLYHIRPAPSDNLPLVDLIEHPDPIFDPKEKDLNETLLRSL
LGGHYPGPFMATSPPEDRPGGGGGPAGGAEDLAELDQLLRQPSGAMPSEIKGLEFSEGLAQQKK
QRLSKKLRRKLQMWLWSQTFPCVLYAWNDLGSRFWPRYVKVGSCFSKRSCSVPEGMVCKPSKSV
HLTVLRWRCQRRGGQRCGWIPYIPISECKCSC

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 Noggin 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: Essential for cartilage morphogenesis and joint formation. Inhibitor of bone morphogenetic proteins (BMP) signaling which is required for growth and patterning of the neural tube and somite (PubMed:9585504, PubMed:9603738). Inhibits chondrocyte differentiation through its interaction with GDF5 and, probably, GDF6 (By similarity).

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.