

Recombinant Rat NOGG Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52486

Size: 10ug, 100ug

Protein Name: Noggin

Synonym: Nog

UniProt ID: Q62809

UniProt Link: www.uniprot.org/uniprotkb/Q62809/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 144 AA

Molecular Weight: 16 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

GGGGGPAGGAEDLAELDQLLRQRPSPGAMPSEIKGLEFSEGLAQGKKQRLSKKLRRKLQMWLWSQ
TFCPVLYAWNDLGSRFWARYVKVGSCFSKRSCSVPEGMVCKPSKSVHLTVLRWRCQRRGGQRCG
WIPIQYPIISECKCSC

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 (By similarity). 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.