

Recombinant Human FGF12 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50310

Size: 10ug, 100ug

Protein Name: Fibroblast growth factor 12 (FGF-12) (Fibroblast growth factor homologous factor 1) (FHF-1) (Myocyte-activating factor)

Synonym: FGF12, FGF12B, FHF1

UniProt ID: P61328

UniProt Link: www.uniprot.org/uniprotkb/P61328/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 243 AA

Molecular Weight: 27 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MAAAIASSLIRQKRQARENSDRVSASKRRSSPSKDGRSLCERHVLGVFSKVRFCSGRKRPVRRRP
EPQLKGIVTRLFSQQGYFLQMHPDGTIDGTDKENS DYTLFNLIPVGLRVVAIQGVKASLYVAMNGEG
YLYSSDVFTPECKFKESVFENYYVIYSSTLYRQQESGRAWFLGLNKEGQIMKGNRVKKT KPSSHFP
KPIEVCMYREPSLHEIGEKQGRSRKSSGTPTMNGGKVVNQDST

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 Fibroblast growth factor 12 (FGF-12) (Fibroblast growth factor homologous factor 1) (FHF-1) (Myocyte-activating factor) 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: Involved in nervous system development and function. Involved in the positive regulation of voltage-gated sodium channel activity. Promotes neuronal excitability by elevating the voltage dependence of neuronal sodium channel SCN8A fast inactivation.

Subcellular Localization: Nucleus .

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.