

Human FGF-12, liquid, His-Tag

Human Fibroblast Growth Factor-12, recombinant

Synonyms: FGF-12, FGF12, FGF12B, FHF1, Fibroblast growth factor 12, Fibroblast growth factor homologous factor 1, FHF-1, Myocyte-activating factor.

PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING

Size	Order #	Lot #	Expiry Date
10 µg	4670.950.010		

Please enquire for bulk quantities and other vial sizes

Description

Recombinant Human FGF-12 with His-Tag is a 201 amino acid protein (1-181) fused to a 20 amino acid His-tag, with a molecular mass of 22,6 kDa. It belongs to the FGF-11 subfamily (FGF-11 to FGF-14) family. Most of its members are binding growth factors with a core 120 amino acid (aa) FGF domain which allows for a mutual tertiary structure. They have high identity with other FGFs but they do not activate FGF receptors (FGFR). FGF-12 doesn't obtain the N-terminal signal sequence present in the majority of the FGF family members, but it contains clusters of basic residues that act as a nuclear localization signal. When transfected into mammalian cells, FGF12 accumulated in the nucleus, but was not secreted. FGF12 is involved in nervous system development and function. FGF12 binds to IB2 (islet brain-2), a cellular kinase scaffold, and voltage gated sodium channels and is also involved in intracellular signaling and ion exchange.

- **Biological Activity** see below
- **Source** *E. Coli*
- **Purity** ≥ 90 % (SDS-PAGE, RP-HPLC)
- **Endotoxin level** ≤ 0.1ng/µg (≤ 1EU/µg)
- **Buffer** Tris (20mM, pH 7,5), DTT (1mM), EDTA (2mM), Glycerol 10%*
- **Physical state** Sterile filtered colorless solution, 1mg/ml

Biological Activity

White label product. Reported to be active by customer.

Stability

The protein is stable at 4°C for up to 7d and at least until the lot specific expiry date if kept between -18°C to -24°C.

Please avoid repeated freeze-thaw cycles.

Amino Acid Sequence

MSSHHHHHHH SSGLVPRGSH MESKEPQLKG IVTRLFSQQG YFLQMHPDGT IDGTKDENSD YTLFNLIPVG
 LRVVAIQGVK ASLYVAMNGE YLYSSDVFT PECKFKESVF ENYYVIYSST LYRQQESGRA WFLGLNKEGQ
 IMKGNRVKKT KPSSHFPVKP IEVCMYREQS LHEIGEKGQR RKSSGTPTM NGGKVVNQDS T

Usage: For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

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