

Product Datasheet

Recombinant FGF-12, Human (orb1494885)

Catalog Number	orb1494885
Category	Proteins
Description	<p>Fibroblast Growth Factor-12 (FGF-12) is a heparin binding cytokine belonging to the FGF family. FGF-12 along with FGF-11, -13, and -14, form a sublineage within the FGF family: in contrast to the other members, they are all intracellular signaling proteins lacking signal peptides and containing a flanking domain beside the family conserved β-trefoil domain. FGF-12 is expressed in the cartilaginous skeleton and heart, suggesting a role in the development of connective tissue and heart. In vivo, FGF-12 binds to Islet Brain-2 and Voltage-Gated Sodium Channels (VGSC), and plays a critical role in the membrane targeting and function of VGSC. FGF-12 has been implicated in heart diseases such as cardiac arrhythmias. Recombinant human Fibroblast Growth Factor-12 (rhFGF-12) produced in E.coli is a single non-glycosylated polypeptide chain containing 181 amino acids. A fully biologically active molecule, rhFGF-12 has a molecular mass of 20.4 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.</p>
Form/Appearance	Lyophilized after extensive dialysis against PBS.
Buffer/Preservatives	Lyophilized after extensive dialysis against PBS.
Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Purification	> 95% as analyzed by SDS-PAGE and HPLC.
Protein Sequence	MESKEPQLK GIVTRLFSQQ GYFLQMHPDG TIDGTKDENS DYTLFNLIPV GLRVVAIQGV KASLYVAMNG EGYLYSSDVF TPECKFKESV FENYYVIYSS TLYRQQESGR AWFLGLNKEG QIMKGNRVKK TKPSSHVFPK PIEVCMYREP SLHEIGEKGQ RSRKSSGTPT MNGGKVVNQD ST
MW	20.4 kDa, observed by reducing SDS-PAGE.
Application notes	Reconstituted in ddH ₂ O or PBS at 100 μ g/ml.

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Endotoxins	0.2 EU/ μ g, determined by LAL method.
Source	Escherichia coli.
Biological Activity	ED50 5×10^4 units/mg.
Storage	Lyophilized recombinant human Fibroblast Growth Factor-12 (rhFGF-12) remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, rhFGF-12 remains stable up to 2 weeks at 4°C or up to 3 months at -20°C .
Note	For research use only
Expiration Date	6 months from date of receipt.

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