

Product Datasheet

Recombinant FGF-16, Human (orb1494749)

Catalog Number	orb1494749
Category	Proteins
Description	<p>Fibroblast Growth Factor-16 (FGF-16) is a heparin binding growth factor, a member of the FGF family. All FGF family members are heparin binding growth factors with a core 120 amino acid (aa) FGF domain that allows for a common tertiary structure. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. The rat homolog is predominantly expressed in embryonic brown adipose tissue and has significant mitogenic activity, which suggests a role in proliferation of embryonic brown adipose tissue. FGF-16 is most similar to FGF-9 (73 % amino acid identity). The protein sequence of human FGF-16 displays 98.6% identity with rat FGF-16. Chimpanzee FGF-16 (207 amino acids), chicken FGF-16 (207 amino acids), and zebrafish FGF-16 (203 amino acids) show 100 %, 89.9 %, and 79.2 % total amino acid identity with human FGF-16. Recombinant human FGF-16 produced in CHO cells is a polypeptide chain containing 206 amino acids. A fully biologically active molecule, rhFGF-16 has a molecular mass of 23 kDa analyzed by reducing SDS-PAGE and is obtained by 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	<p>AEVGGVFASLDWDLHGFSSSLGNVPLADSPGFLNERLGQIEGKLQSGPTDFAHLKGILRR RQLYCRTGFHLEIFPNGTV HGTRHDHSRFGILEFISLAVGLISIRGVDSGLYLGMNERGELYGSKKLTRECVFREQFEENW YNTYASTLYKHSDSERQY YVALNKDGSPREGYRTRKHQKFTHFLPRPVDPSKLPSMSRDLFHYR</p>

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MW	23 kDa, observed by reducing SDS-PAGE.
Application notes	Reconstituted in ddH2O or PBS at 100 µg/ml.
Endotoxins	0.2 EU/µg, determined by LAL method.
Source	CHO
Biological Activity	Measured in a cell proliferation assay using 3T3 mouse fibroblast cell, The ED50 for this effect is 20 ng/mL.
Storage	Lyophilized recombinant Human Fibroblast Growth Factor-16 remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, Human Fibroblast Growth Factor-16 should be stable up to 1 week at 4°C or up to 3 months at -20°C.
Note	For research use only

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