

Product Datasheet

Recombinant FGF-6, Human (orb1494878)

Description	Fibroblast Growth Factor-6 (FGF-6) is a cytokine belonging to the heparin-binding FGF family, and is structurally related to other members of FGF family, particularly FGF-4. In vivo, FGF-6 exhibits an expression profile predominantly restricted to the myogenic lineage, and it preferentially binds to two of the FGF receptors: FGFR1 and FGFR4. FGF-6 functions in muscle regeneration, myoblast proliferation and migration, and muscle differentiation in a dose-dependent manner. In vivo high concentration of recombinant FGF-6 up-regulates and down-regulates FGFR1 and FGFR4, respectively, as FGFR1 promotes the proliferation while FGFR4 promotes the differentiation in the muscle. Besides its dual function in muscle regeneration, FGF-6 may act as a regulator of bone metabolism as well. Recombinant human Fibroblast Growth Factor-6 (rhFGF-6) produced in E.coli is a single non-glycosylated polypeptide chain containing 169 amino acids. A fully biologically active molecule, rhFGF-6 has a molecular mass of 18.8 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.
Endotoxins	< 0.2 EU/μg, determined by LAL method.
Preservatives	Lyophilized after extensive dialysis against PBS.
Form/Appearance	Lyophilized after extensive dialysis against PBS.
Storage	Lyophilized recombinant human Fibroblast Growth Factor-6 (rhFGF-6) remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, rhFGF-6 remains stable up to 2 weeks at 4°C or up to 3 months at -20°C.
Note	For research use only
Application notes	Reconstituted in ddH ₂ O at 100 μg/mL.
Protein Sequence	MGTRANNTL LDSRGWGTLT SRSRAGLAGE IAGVNWESGY LVGIKRQRRL YCNVGIGFHL QVLPDGRISG THEENPYSLL EISTVERGVV SLFGVRSALF VAMNSKGRLL ATPSFQEECK FRETLLPNNY NAYESDLYQG TYIALSKYGR VKRGSKVSPV MTVTHFLPRI
Purity	> 95% as analyzed by SDS-PAGE and HPLC.

Biorbyt Ltd.

7 Signet Court, Swann's Road,
Cambridge, CB5 8LA, United Kingdom
Email: info@biorbyt.com, support@biorbyt.com
Phone: [+44 \(0\) 1223 859-353](tel:+44(0)1223859353) | Fax: [+1 \(415\) 651-8558](tel:+1(415)6518558)

Biorbyt LLC.

68 TW Alexander Drive,
Durham, NC, 27713, United States
Email: info@biorbyt.com, support@biorbyt.com
Phone: [+1 \(415\) 906-5211](tel:+1(415)9065211) | Fax: [+1 \(415\) 651-8558](tel:+1(415)6518558)

Source	Escherichia coli.
MW	18.8 kDa, observed by reducing SDS-PAGE.
Expiration Date	6 months from date of receipt.

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7 Signet Court, Swann's Road,
Cambridge, CB5 8LA, United Kingdom
Email: info@biorbyt.com, support@biorbyt.com
Phone: [+44 \(0\) 1223 859-353](tel:+44(0)1223859353) | Fax: [+1 \(415\) 651-8558](tel:+1(415)6518558)

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68 TW Alexander Drive,
Durham, NC, 27713, United States
Email: info@biorbyt.com, support@biorbyt.com
Phone: [+1 \(415\) 906-5211](tel:+1(415)9065211) | Fax: [+1 \(415\) 651-8558](tel:+1(415)6518558)