

# **Product Datasheet**

## **RecombinantFGF-acidic,Mouse (orb1494869)**

Description	Fibroblast Growth Factor- acidic (FGF-acidic) is a mitogen targeting at the endothelial cells, and belongs to the heparin binding FGF family, which contains 22 members. FGF-acidic binds to the receptor family FGFR1-4 in vivo with the assistance of heparin. However, along with FGF -basic, FGF-acidic lacks the signal peptide segment, and thus is not secreted via endoplasmic reticulum (ER) and Golgi bodies. Studies have shown that FGF-acidic is highly regulated, and it is a direct angiogenesis factor. If unregulated, angiogenesis could contribute to several diseases including arthritis, diabetes, ocular neovascularization, and especially tumors. Therefore, FGF-acidic is treated as a potential oncogene, and its overexpression is correlated tightly with several cancers. Recombinant mouse Fibroblast Growth Factor- acidic (rmFGF-acidic) produced in E.coli is a single non- glycosylated polypeptide chain containing 140 amino acids. A fully biologically active molecule, rmFGF-acidic has a molecular mass of 15.8 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.
Endotoxins	< 0.2 EU/ $\mu$ g, determined by LAL method.
Preservatives	Lyophilized after extensive dialysis against PBS.
Form/Appearance	Lyophilized after extensive dialysis against PBS.
Storage	Lyophilized recombinant mouse Fibroblast Growth Factor- acidic (rmFGF-acidic) remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, rmFGF-acidic should be 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 ddH2O at 100 μg/mL.
Protein Sequence	FNL PLGNYKKPKL LYCSNGGHFL RILPDGTVDG TRDRSDQHIQ LQLSAESAGE VYIKGTETGQ YLAMDTEGLL YGSQTPNEEC LFLERLEENH YNTYTSKKHA EKNWFVGLKK NGSCKRGPRT HYGQKAILFL PLPVSSD
Purity	> 95% by SDS-PAGE and HPLC analyses.

#### **Biorbyt Ltd.**

7 Signet Court, Swann's Road, Cambridge, CB5 8LA, United Kingdom Email: <u>info@biorbyt.com</u>, <u>support@biorbyt.com</u> Phone: <u>+44 (0) 1223 859-353</u> | Fax: <u>+1 (415) 651-8558</u>

#### **Biorbyt LLC.**

68 TW Alexander Drive, Durham, NC, 27713, United States Email: <u>info@biorbyt.com</u>, <u>support@biorbyt.com</u> Phone: <u>+1 (415) 906-5211</u> | Fax: <u>+1 (415) 651-8558</u>



### **Biorbyt.com**

Source	Escherichia coli.
MW	15.8 kDa, observed by reducing SDS-PAGE.
Expiration Date	6 months from date of receipt.

#### **Biorbyt Ltd.**

7 Signet Court, Swann's Road, Cambridge, CB5 8LA, United Kingdom Email: <u>info@biorbyt.com</u>, <u>support@biorbyt.com</u> Phone: <u>+44 (0) 1223 859-353</u> | Fax: <u>+1 (415) 651-8558</u>

#### **Biorbyt LLC.**

68 TW Alexander Drive, Durham, NC, 27713, United States Email: <u>info@biorbyt.com</u>, <u>support@biorbyt.com</u> Phone: <u>+1 (415) 906-5211</u> | Fax: <u>+1 (415) 651-8558</u>