GenScript Make Research Easy

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DATASHEET

FGF-acidic, Mouse

Cat. No.: Z03049

Product Introduction

Species	Mouse
Protein Construction	FGF-acidic (Phe16-Asp155) Accession # P61148
Purity	> 95% as analyzed by SDS-PAGE > 95% as analyzed by HPLC
Endotoxin Level	< 0.2 EU/µg of protein by gel clotting method
Biological Activity	ED_{50} < 0.4 ng/ml, measured by a cell proliferation assay using 3T3 cells in the presence of 10.0 µg/ml heparin, corresponding to a specific activity of > 2.5 × 10 ⁶ units/mg.
Expression System	E. coli
Apparent Molecular Weight	~15.8 kDa, on SDS-PAGE under reducing conditions.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH ₂ O up to 100 μ g/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Examples





ED₅₀<0.4 ng/mL, measured by a cell proliferation assay using 3T3 cells in the presence of 10 μ g/mL heparin, corresponding to a specific activity of > 2.5 × 10⁶ units/mg.

Background

Target Background : 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.

Synonyms : Fibroblast Growth Factor-acidic; HBGF-1; ECGF-beta; FIBP; FGFIBP; FIBP-1; ECGF; ECGFA; GLIO703; FGF1; FGF-a

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