Rev06
Update: Jan,19,2024

DATASHEET

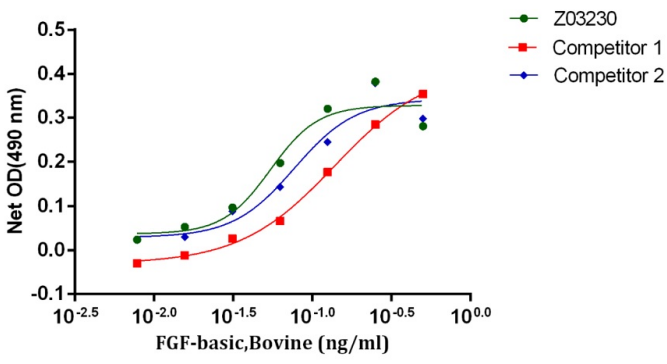
FGF-basic, Bovine

Cat. No.: Z03230

Product Introduction

Species	Bovine
Protein Construction	**FGF-basic (Pro10-Ser155) Accession # P03969**
Purity	> 95% as analyzed by SDS-PAGE
Endotoxin Level	< 0.2 EU/μg of protein by gel clotting method
Biological Activity	ED_{50} < 1.0 ng/ml, measured by a cell proliferation assay using 3T3 cells, corresponding to a specific activity of > 1.0×10^6 units/mg.
Expression System	E. coli
Apparent Molecular Weight	~16.4 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 PBS up to 100 μg/ml.（It is recommended to increase the concentration of NaCl in PBS to 300 mM）
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



ED_{50} < 1.0 ng/ml, measured by a cell proliferation assay using 3T3 cells, corresponding to a specific activity of > 1.0×10^6 units/mg.

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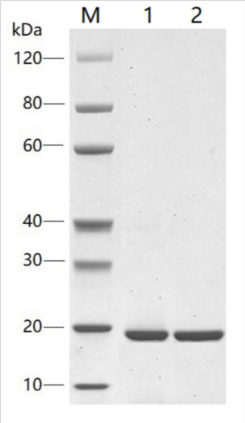

Lane 1: 2 μg of FGF-basic, Bovine, non-reducing (NR)
Lane 2: 2 μg of FGF-basic, Bovine, reducing (R)
> 95% as analyzed by SDS-PAGE

Background

Target Background : Fibroblast Growth Factor-basic (FGF-basic), also known as FGF-2, is a pleiotropic cytokine and one of the prototypic members of the heparin-binding FGF family. Like other FGF family members, FGF-basic has the β trefoil structure. In vivo, FGF-basic is produced by a variety of cells, including cardiomycotes, fibroblasts, and vascular cells. FGF-basic regulates a variety of processes including cell proliferation, differentiation, survival, adhesion, motility, apoptosis, limb formation and wound healing. FGF-basic can be tumorigenic due to its role in angiogenesis and blood vessel remodeling. The angiogenic effects of FGF-basic can produce beneficial cardioprotection during acute heart injury.

Synonyms : Fibroblast Growth Factor-basic; FGF-2; BFGF; FGFB; HBGF-2; bFGF; Prostatropin

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.

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