Rev05
Update: Sep,11,2025

DATASHEET

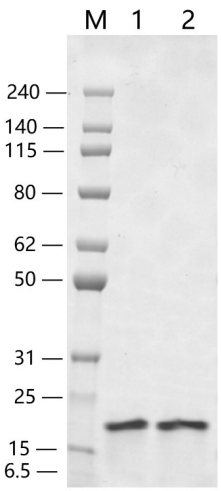
FGF-basic, Salmon

Cat. No.: Z03727

Product Introduction

Species	Salmon
Protein Construction	FGF-basic (Full length) Accession # XP_035600424.1
Purity	⩾ 95% as analyzed by SDS-PAGE
Endotoxin Level	< 0.2 EU/μg of protein by gel clotting method
Biological Activity	EC_{50} < 1.0 ng/ml as determined by a dose-response proliferation assay using murine Balb/c 3T3 cells. Based on the EC_{50}, the calculated specific activity is approximately > 1.0 × 10^6 U/mg.. It is recommended to experimentally determine the optimal concentration for each specific application by performing a dose response assay.
Expression System	E. coli
Theoretical Molecular Weight	17.1 kDa
Apparent Molecular Weight	~20 kDa, on SDS-PAGE under non-reducing conditions.
Formulation	Lyophilized from a 0.2 μm filtered solution in 7.8 mM Na_2HPO_4, 1.5 mM KH_2PO_4, 2.7 mM KCl, 500 mM NaCl.
Reconstitution	Before opening, centrifuge the vial briefly to bring the contents to the bottom. Reconstitute the lyophilized powder in PBS up to 100 μg/ml.
Storage & Stability	Upon receiving, the lyophilized product remains stable for 6 months at lower than -70°C. Upon reconstitution, the product is stable for 1 week at 4°C or for 3 months at -20°C. Avoid repeated freeze-thaw cycles by making single-use aliquots before the solution is storage at -20°C.

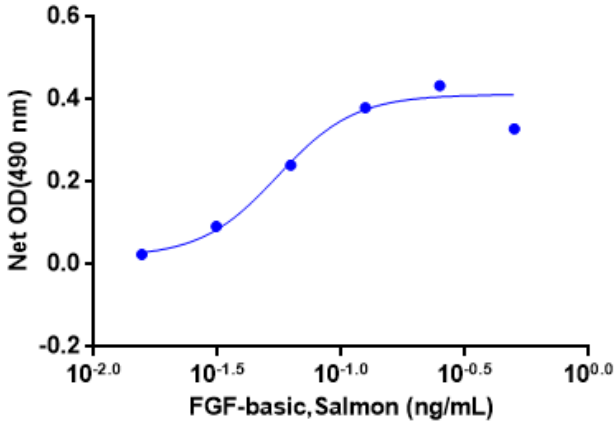
Examples



Lane 1: 2 μg of FGF-basic, Salmon, reducing (R)

Lane 2: 2 μg of FGF-basic, Salmon, non-reducing (NR)

The purity is greater than 95% as analyzed by SDS-PAGE



The EC_{50} as determined by a cell proliferation assay using mice Balb/c 3T3 cells is 0.053 ng/ml.

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 cardiomyocytes, 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 : FGF-2; BFGF; FGFB; FGF basic;

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

Manufacturer: Nanjing GenScript Biotech Co., Ltd. No. 28 Yongxi Road, Jiangning District, Nanjing, Jiangsu, China