

Rev01
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DATASHEET

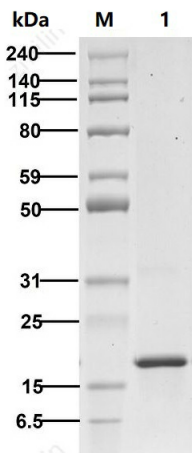
Heat Stable FGF-basic, Human

Cat. No.: Z03754

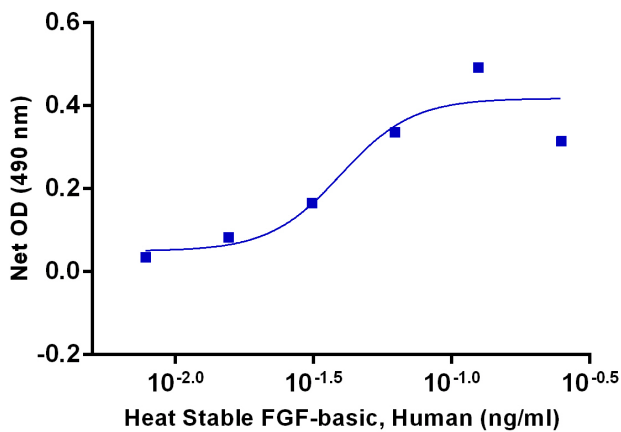
Product Introduction

Species	Human
Protein Construction	Expressed with an N-terminal Met and several site mutations Human Heat Stable FGF-basic (Ala135-Ser288) Accession # P09038
Purity	≥ 95% as analyzed by SDS-PAGE
Endotoxin Level	< 0.2 EU/μg of protein by gel clotting method
Biological Activity	ED ₅₀ < 0.25 ng/ml as determined by a dose-response proliferation assay using 3T3 cells. Based on the ED ₅₀ , the calculated specific activity is approximately > 4.0 × 10 ⁶ units/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	~17.1 kDa, on SDS-PAGE under reducing conditions.
Formulation	Lyophilized after extensive dialysis against PBS.
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 up to 6 months at lower than -70 °C. Upon reconstitution, the product is stable for up to 1 week at 4 °C or up to 3 months at -20 °C. Avoid repeated freeze-thaw cycles by making single-use aliquots before the solution is stored at -20 °C.

Examples



Lane 1: 2 μ g of Heat Stable FGF-basic, Human, reducing (R)
 The purity is greater than 95% as analyzed by SDS-PAGE



The ED_{50} as determined by a cell proliferation assay using 3T3 cells is 0.04 ng/ml.

Background

Target Background : Heat Stable FGF-basic, Human 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 : Heat Stable FGF-2

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

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