

Rev03
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DATASHEET

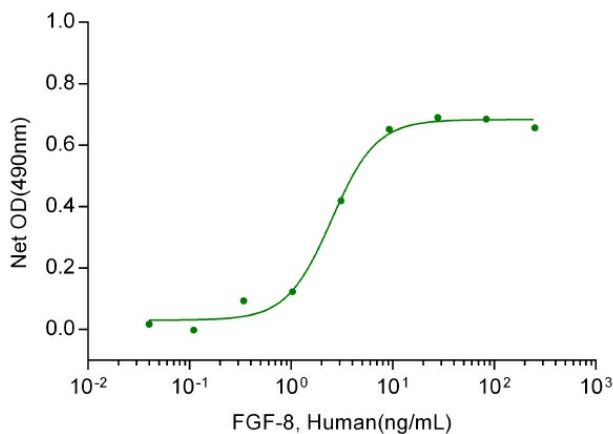
FGF-8, Human

Cat. No.: Z02989

Product Introduction

Species	Human
Protein Construction	Expressed with an N-terminal Met. FGF-8 (Gln23-Arg215) Accession # P55075
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 < 5.0 ng/ml, measured by a cell proliferation assay using 3T3 cells in the presence of 1.0 μg/ml of heparin, corresponding to a specific activity of > 2.0 × 10 ⁵ units/mg.
Expression System	E. coli
Apparent Molecular Weight	~22.5 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 μg/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 < 5.0 ng/ml, measured by a cell proliferation assay using 3T3 cells in the presence of 1µg/ml of heparin, corresponding to a specific activity of > 2.0 × 10⁵ units/mg.

Background

Target Background : Fibroblast Growth Factor-8 (FGF-8) is a heparin-binding growth factor of the FGF family. There are 4 known forms of FGF8 produced by alternative splicing: FGF8a, FGF-8b, FGF-8e and FGF-8f. The human and mouse FGF8b are identical of aa sequences. FGF-8 plays an important role in the regulation of embryonic development, cell proliferation, cell differentiation and cell migration. FGF-8 is required for normal brain, eye, ear and limb development during embryogenesis. It is also required for normal development of the gonadotropin- releasing hormone (GnRH) neuronal system.

Synonyms : FGF-8b; AIGF; HBGF

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