

Rev04
Update: Jan,19,2024

DATASHEET

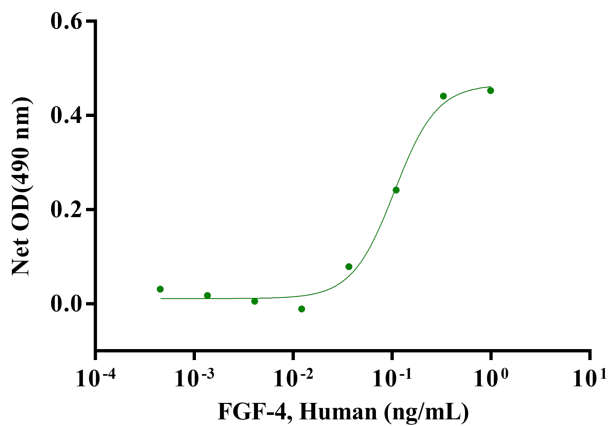
FGF-4, Human

Cat. No.: Z02984

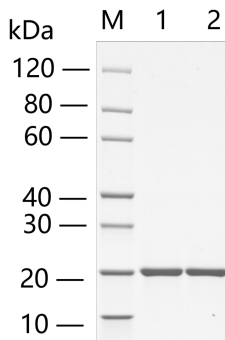
Product Introduction

Species	Human
Protein Construction	Expressed with an N-terminal Met. FGF-4 (Ala31-Leu206) Accession # P08620
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 < 0.5 ng/ml, measured in a cell proliferation assay using 3T3 cells, corresponding to a specific activity of > 2.0 × 10 ⁶ units/mg.
Expression System	E. coli
Apparent Molecular Weight	~19.4 kDa, on SDS-PAGE under reducing conditions.
Formulation	Lyophilized after extensive dialysis against 50 mM HEPES, 750 mM NaCl, pH 7.5.
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 < 0.5 ng/ml, measured in a cell proliferation assay using 3T3 cells, corresponding to a specific activity of > 2.0 × 10⁶ units/mg.



Lane 1: 2 µg of FGF-4, Human, reducing (R)
 Lane 2: 2 µg of FGF-4, Human, non-reducing (NR)
 > 95% as analyzed by SDS-PAGE

Background

Target Background : Fibroblast Growth Factor-4 (FGF-4) also known as K-FGF is a heparin-binding growth factor of the FGF family. It was identified by its oncogenic transforming activity. FGF-4 and FGF-3 are located closely on chromosome 11. FGF-4 and its receptors (FGF R1c, 2c, 3c and 4) play an important role in the regulation of embryonic development, cell proliferation, and cell differentiation. FGF-4 is required for normal limb and cardiac valve development during embryogenesis.

Synonyms : HBGF-4; HST; HST-1; HSTF1; K-FGF; KFGF

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

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