

Rev04
Update: Jan,19,2024

DATASHEET

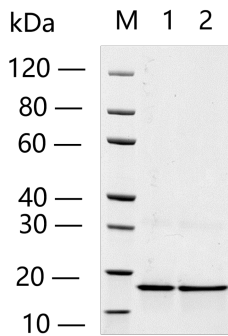
FGF-10, Human

Cat. No.: Z03314

Product Introduction

Species	Human
Protein Construction	FGF-10 (Leu40-Ser208) Accession # O15520
Purity	> 95% as analyzed by SDS-PAGE
Endotoxin Level	< 0.2 EU/μg of protein by gel clotting method
Biological Activity	ED ₅₀ < 20.0 ng/ml, measured by a cell proliferation assay using 4MBr-5 cells, corresponding to a specific activity of > 5.0 × 10 ⁴ units/mg.
Expression System	E. coli
Apparent Molecular Weight	~19.3 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



Lane 1: 2µg of FGF-10, Human, non-reducing(NR)

Lane 2: 2µg of FGF-10, Human, reducing(R)

> 95% as analyzed by SDS-PAGE

Background

Target Background : Fibroblast Growth Factor-10 (FGF-10) is a mitogen mainly produced by mesenchymal stem cells in the lung. FGF-10 belongs to the heparin binding FGF family, and is also known as Keratinocyte Growth Factor-2 (KGF-2). It shares homology with KGF and receptor binding to FGFR2-IIIb. However, while KGF induces proliferation and differentiation of various epithelial cells, FGF-10 promotes budding and branching morphogenesis during the multi-organ development via mesenchymal-epithelial cell interactions. FGF-10 is critical for lung and limb development, and is regulated by Shh during early development.

Synonyms : Fibroblast Growth Factor-10; FGFA; Keratinocyte growth factor-2

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

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