

Rev04
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DATASHEET

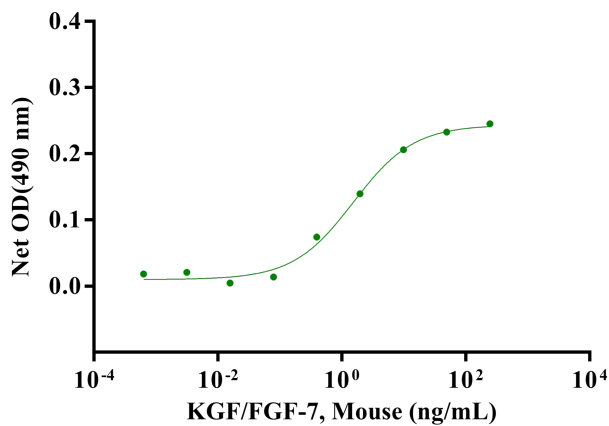
KGF/FGF-7, Mouse

Cat. No.: Z03154

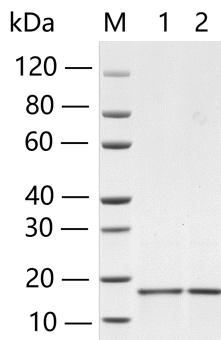
Product Introduction

Species	Mouse
Protein Construction	FGF-7 (Cys32-Thr194) Accession # P36363
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 < 2.0 ng/ml, measured by a cell proliferation assay using 4MBr-5 cells, corresponding to a specific activity of > 5.0 × 10 ⁵ units/mg.
Expression System	E. coli
Apparent Molecular Weight	~18.7 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 PBS 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 < 2.0 ng/ml, measured by a cell proliferation assay using 4MBr-5 cells, corresponding to a specific activity of > 5.0 × 10⁵ units/mg.



Lane 1: 2 µg of KGF/FGF-7, Mouse, reducing (R)
 Lane 2: 2 µg of KGF/FGF-7, Mouse, non-reducing (NR)
 > 95% as analyzed by SDS-PAGE

Background

Target Background : Keratinocyte Growth Factor (KGF) is a highly specific epithelial mitogen produced by fibroblasts and mesenchymal stem cells. KGF belongs to the heparin binding Fibroblast Growth Factor (FGF) family, and is known as FGF-7. However, in contrast to FGF-1, which binds to all known FGF receptors with high affinity, KGF only binds to a splice variant of the FGF receptor, FGFR2-IIIb. FGFR2-IIIb is expressed by most epithelial cells, indicating KGF's role as a paracrine mediator. KGF induces the differentiation and proliferation of various epithelial cells such as keratinocytes in the epidermis, hair follicles and sebaceous glands., KGF is also responsible for wound repair of various tissues including lung, bladder, and kidney.

Synonyms : Keratinocyte Growth Factor; Fibroblast Growth Factor-7; HBGF-7; FGF7

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

生产商: 南京金斯瑞生物科技有限公司 江苏省南京市江宁区科学园雍熙路28号

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