

Rev07
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DATASHEET

FGF-10, Mouse

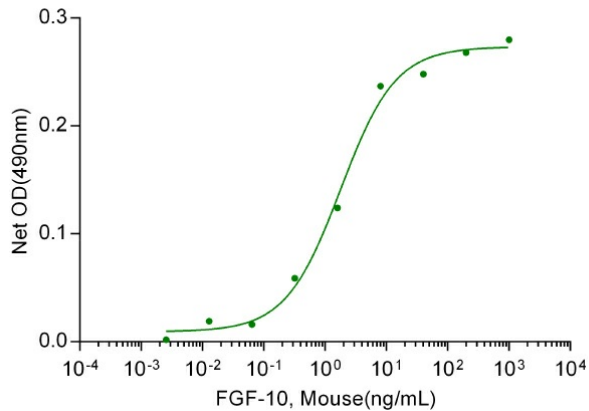
Cat. No.: Z03155

Product Introduction

Species	Mouse
Protein Construction	FGF-10 (Ser62-Thr209) Accession # O35565
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 < 10.0 ng/ml, measured by a cell proliferation assay using 4MBr-5 cells, corresponding to a specific activity of > 1.0 × 10 ⁵ U/mg.
Expression System	E. coli
Apparent Molecular Weight	~17 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 6 months at lower than -70°C. Upon reconstitution, the product should be stable for 1 week at 4°C or for 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 < 10 ng/mL, measured by a cell proliferation assay using 4MBr-5 cells, corresponding to a specific activity of > 1.0 × 10⁵ units/mg.



Background

Target Background : Fibroblast Growth Factor-10 (FGF-10) is a mitogen mainly produced by mesenchymal stem cells in 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 both KGF and FGF-10 activate the receptor FGFR2-IIIb. However, unlike KGF, which induces the proliferation and differentiation of various epithelial cells, FGF-10 is an essential factor for the budding and branching morphogenesis during multi-organ development via mesenchymal-epithelial interactions. FGF-10 is crucial 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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