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Human FGF-7 Recombinant Protein



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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

10 µg

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MW (kDa):
19.0

UniProt ID:
#P21781

Entrez-Gene Id:
2252

Background

FGF-7, or keratinocyte growth factor (KGF), is a member of the large and diverse fibroblast growth factor (FGF) family of peptide growth factors. FGF-7 binds to receptor FGFR2 IIIb isoform which is also known as KGF receptor (KGFR) (1). FGF-7 functions as a signaling molecule that is involved in many important processes (2,3). FGF-7 helps to repair injured epithelium and is strongly upregulated in dermal fibroblasts after skin injury (4). In addition, animal models of recombinant human FGF-7 have been shown to enhance the regenerative capacity of epithelial cells and protect them from toxic exposure (5).

Endotoxin

Endotoxin levels are less than or equal to 1 EU / 1 µg hFGF-7.

Purity

A greater than or equal to 90% purity was determined by SDS-PAGE.

Source / Purification

Recombinant human FGF-7 was expressed in *E. coli* and is supplied in a lyophilized form.

Bioactivity

The bioactivity of recombinant hFGF-7 was determined in a 4MBr-5 cell proliferation assay. The ED₅₀ of each lot is less than or equal to 60 ng/mL.

Background References

1. Sher, I. et al. (2000) *J Biol Chem* 275, 34881-6.
2. Mossahebi-Mohammadi, M. et al. (2020) *Front Cell Dev Biol* 8, 79.
3. Cardoso, W.V. et al. (1997) *Dev Dyn* 208, 398-405.
4. Beer, H.D. et al. (2000) *J Invest Dermatol Symp Proc* 5, 34-9.
5. Finch, P.W. and Rubin, J.S. (2004) *Adv Cancer Res* 91, 69-136.

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