

Human FGF-5 Recombinant Protein



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10 µg

For Research Use Only. Not for Use in Diagnostic Procedures.

MW (kDa): 27.7	UniProt ID: #P12034-2	Entrez-Gene Id: 2250	
Background	FGF-5 is a member of the large and diverse fibroblast growth factor (FGF) family of peptide growth		

factors. FGF-5 binds to receptor FGFR1 and functions as a signaling molecule that plays a critical role in the regulation of the hair cycle (1,2). Mutations in FGF5 exhibit familial trichomegaly, a condition that involves a significant increase in the anagen phase of the hair growth cycle as well as extremely long eyelashes (1). FGF-5 also plays an important role in androgenetic alopecia as demonstrated in a genome-wide association study of men with early onset of this disease. Polymorphisms in FGF-5 have a strong association with the biology of male pattern hair loss (3). Clinical studies have shown that topical application of formulations containing FGF-5 are beneficial to men and women experiencing hair loss

Endotoxin Endotoxin levels are less than or equal to 1 EU / 1 μg hFGF-5.

Purity A greater than or equal to 95% purity was determined by SDS-PAGE.

Source / Purification Recombinant human FGF-5 was expressed in E. coli and is supplied in a lyophilized form.

The bioactivity of recombinant hFGF-5 was determined in an NR6R-3T3 cell proliferation assay. The ED₅₀ Bioactivity

of each lot is less than or equal to 10 ng/mL.

Background References 1. Higgins, C.A. et al. (2014) Proc Natl Acad Sci U S A 111, 10648-53.

2. Hébert, J.M. et al. (1994) Cell 78, 1017-25.

3. Heilmann-Heimbach, S. et al. (2017) Nat Commun 8, 14694.

4. Burg, D. et al. (2017) Clin Cosmet Investig Dermatol 10, 71-85.

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