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Human FGF-10 Recombinant Protein

25 µg

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For Research Use Only. Not for Use in Diagnostic Procedures.**MW (kDa):**
19.3**UniProt ID:**
#O15520**Entrez-Gene Id:**
2255

Background

FGF-10 is a member of the large and diverse fibroblast growth factor (FGF) family of peptide growth factors. FGF-10 functions as a signaling molecule that is involved in many important processes (1,2). It binds to receptor FGFR2b and is essential as a signaling growth factor for mesenchymal-to-epithelial transition (3). FGF-10 is involved in limb development and morphogenesis of multiple organs, such as lung, skin, ear, and salivary gland (3,4). Knockout mice for FGF-10 show severe phenotypes with complete truncation of the fore- and hindlimbs and they die shortly after birth due to impaired lung development (4).

Endotoxin

Endotoxin levels are less than or equal to 1 EU / 1 µg hFGF-10.

Purity

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

Source / Purification

Recombinant human FGF-10 was expressed in *E. coli* and is supplied in a lyophilized form.

Bioactivity

The bioactivity of recombinant hFGF-10 was determined in a 4MBr-5 cell proliferation assay. The ED₅₀ of each lot is less than or equal to 200 ng/mL.

Background References

1. Vega-Hernández, M. et al. (2011) *Development* 138, 3331-40.
2. Watson, J. and Francavilla, C. (2018) *Front Genet* 9, 500.
3. Belov, A.A. and Mohammadi, M. (2013) *Cold Spring Harb Perspect Biol* 5, a015958. doi: 10.1101/cshperspect.a015958.
4. Itoh, N. and Ohta, H. (2014) *Curr Mol Med* 14, 504-9.

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