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#37188

Human/Mouse FGF-8 Recombinant Protein

25 µg

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MW (kDa):	UniProt ID:	Entrez-Gene Id:
22.5	#P55075, #P37237	2253, 14179

Background

FGF-8 is a member of the large and diverse fibroblast growth factor (FGF) family of peptide growth factors. FGF-8 binds to receptor FGFR1 and functions as a signaling molecule that is involved in many important processes (1,2). FGF-8 is involved in the development of the forebrain and also plays a role in maxillofacial diseases (3,4). It regulates craniofacial structure formation including the teeth, palate, mandible, and salivary glands and decreased expression of FGF-8 results in malformations such as absence of molar teeth, failure to close the palate, and decreased mandible size (4).

Endotoxin

Endotoxin levels are less than or equal to 1 EU / 1 µg h/mFGF-8.

Purity

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

Source / Purification

Recombinant human/mouse FGF-8 was expressed in *E. coli* and is supplied in a lyophilized form.

Bioactivity

The bioactivity of recombinant h/mFGF-8 was determined in an NR6R-3T3 cell proliferation assay. The ED₅₀ of each lot is less than or equal to 150 ng/mL.

Background References

1. Belov, A.A. and Mohammadi, M. (2013) *Cold Spring Harb Perspect Biol* 5, a015958. doi: 10.1101/cshperspect.a015958.
2. Feldman, B. et al. (1995) *Science* 267, 246-9.
3. Grove, E.A. and Fukuchi-Shimogori, T. (2003) *Annu Rev Neurosci* 26, 355-80.
4. Hao, Y. et al. (2019) *Int J Oncol* 54, 797-806.

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