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Animal-Free Recombinant Human FGF-basic (154 a.a.)

Catalog # PBG10493

Specification

Animal-Free Recombinant Human FGF-basic (154 a.a.) - Product Information

Animal-Free Recombinant Human FGF-basic (154 a.a.) - Additional Information

Description
FGF-basic is one of 23 known members of the FGF family. Proteins of this family play a central role during prenatal development and postnatal growth and regeneration of a variety of tissues, by promoting cellular proliferation and differentiation. FGF-basic is a non-glycosylated heparin binding growth factor that is expressed in the brain, pituitary, kidney, retina, bone, testis, adrenal gland liver, monocytes, epithelial cells and endothelial cells. FGF-basic signals through FGFR 1b, 1c, 2c, 3c and 4. Recombinant human FGF-basic is a 17.2 kDa protein consisting of 154 amino acid residues.

BiologicalActivity
Assay #1: The ED₅₀ as determined by the dose-dependent stimulation of thymidine uptake by BaF3 cells expressing FGF receptors is ≤ 0.5 ng/ml, corresponding to a specific activity of ≥ 2 x 10⁶ units/mg.

 Assay #2: The ED₅₀ was determined by a cell proliferation assay using balb/c 3T3 cells is ≤ 0.1 ng/ml, corresponding to a specific activity of ≥ 1 x 10⁷ units/mg.

Authenticity
Verified by N-terminal and Mass Spectrometry analyses (when applicable).

Endotoxin
Endotoxin level is <0.1 ng/ µg of protein (<1EU/ µg).

Protein Content
Verified by UV Spectroscopy and/or SDS-PAGE gel.

Storage
-20°C

Precautions
Animal-Free Recombinant Human FGF-basic (154 a.a.) is for research use only and not for use in diagnostic or therapeutic procedures.

Animal-Free Recombinant Human FGF-basic (154 a.a.) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot

- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Animal-Free Recombinant Human FGF-basic (154 a.a.) - Images