

Bioactive

FGF8 (Human) Recombinant Protein

Catalog # P7306

Size 10 ug

Applications

Result of activity analysis

Result of activity analysis

Specification

Product Description	Human FGF8 (P55075, 23 a.a. - 215 a.a.) partial recombinant protein expressed in <i>Escherichia coli</i> .
Sequence	MQEGPGRGPALGRELASLFRAGREPQGVSQQHVVREQSLVTDQLSRRLIRTYQLYSRTSGKHHVQV LANKRINAMAEDGDPFAKLIVETDTFGSRVRVRGAETGLYICMNKKGKLIAKSNGKGKDCVFTEIML ENNYTALQNAKYEGWYMAFTRKGRPRKGSKTRQHQREVHFMKRLPRGHHTTEQSLRFEFLNYP
Host	Escherichia coli
Theoretical MW (kDa)	22.5
Form	Lyophilized
Preparation Method	<i>Escherichia coli</i> expression system
Purity	> 95% as analyzed by SDS-PAGE. > 95% as analyzed by HPLC.
Endotoxin Level	< 0.2 EU/μg of protein by gel clotting method
Activity	ED ₅₀ < 5.0 ng/mL, measured by a cell proliferation assay using 3T3 cells in the presence of 1.0 ug/mL of heparin, corresponding to a specific activity of > 2.0 × 10 ⁵ units/mg.

Recommend Usage

Biological Activity
SDS-PAGE
The optimal working dilution should be determined by the end user.

Storage Buffer

Lyophilized from PBS. Reconstitute the lyophilized powder in ddH₂O up to 100 ug/mL.

Storage Instruction

Store at 4°C to 8°C for 1 week. For long term storage store at -20°C to -80°C.
Aliquot to avoid repeated freezing and thawing.

Note

Result of activity analysis
Result of activity analysis

Applications

- Functional Study
- SDS-PAGE

Gene Info — FGF8

Entrez GeneID

[2253](#)

Protein Accession#

[P55075](#)

Gene Name

FGF8

Gene Alias

AIGF, HBGF-8, MGC149376

Gene Description

fibroblast growth factor 8 (androgen-induced)

Omim ID

[600483](#)

Gene Ontology

[Hyperlink](#)

Gene Summary

The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. This protein is known to be a factor that supports androgen and anchorage independent growth of mammary tumor cells. Overexpression of this gene has been shown to increase tumor growth and angiogenesis. The adult expression of this gene is restricted to testes and ovaries. Temporal and spatial pattern of this gene expression suggests its function as an embryonic epithelial factor. Studies of the mouse and chick homologs revealed roles in midbrain and limb development, organogenesis, embryo gastrulation and left-right axis determination. The alternative splicing of this gene results in four transcript variants. [provided by RefSeq]

Other Designations

OTTHUMP00000020348|OTTHUMP00000020349|OTTHUMP00000020350|OTTHUMP00000020351|androgen-induced growth factor|fibroblast growth factor 8

Pathway

- [MAPK signaling pathway](#)
- [Melanoma](#)
- [Pathways in cancer](#)
- [Regulation of actin cytoskeleton](#)

Disease

- [Cleft Lip](#)
- [Cleft Palate](#)
- [Hypospadias](#)