



Recombinant Human Fibroblast Growth Factor 8 (rhFGF8)

Catalog #104-08

Product Description

Recombinant Human Fibroblast Growth Factor 8 (FGF8) is a secreted, heparin-binding member of the FGF family, originally identified as an androgen-dependent growth factor in mouse mammary carcinoma cells. In humans, four isoforms (FGF8a, b, e, f) are produced by alternative splicing. FGF8 plays a critical role during embryogenesis, regulating epithelial–mesenchymal transition and orchestrating tissue patterning of the midbrain/hindbrain, eye, ear, limbs, and heart. In adults, FGF8 expression is limited, but detectable in reproductive and genitourinary tissues, bone marrow hematopoietic cells, and peripheral leukocytes. Recombinant Human Fibroblast Growth Factor 8 (FGF8) corresponds to amino acids Gln23–Arg244 of the human FGF8 protein, with an additional N-terminal Met and C-terminal His tag, giving a total length of 202 amino acids.

Specifications

Synonyms:	FGF8, HBGF-8, AIGF
AA Sequence:	MQVTVQSSPN FTQHVREQSLV TDQLSRRLIR TYQLYSRTSG KHVQVLANKR INAMAEDGDP FAKLIVETDT FGSRVVRGA ETGLYICMNK KGKLIKSNG KGKDCVFTEI VLENNYTALQ NAKYEGWYMA FTRKGRPRKG SKTRQHQREV HFMKRLPRGH HTTEQSLRFE FLNYPPFTRS LRGSQRTWAP EPRLEHHHHHH
Source:	<i>E. coli</i>
Purity	> 95%

Quality Control

Endotoxin:	<0.1 ng/μg of protein (<1 EU/μg)
Sterility	No microorganisms
Physical Appearance:	Light yellow to white powder

Formulation

Lyophilized from a 0.2μm filtered concentrated (1mg/ml) solution in 1x PBS with dextran as protectant.

Rev. 0

Reconstitution

Reconstitute in sterile distilled water or sterile 1x PBS containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL.

Shipping and Storage

Gel ice. Upon receipt, store at -20°C after receiving. Upon reconstitution, store at 2-8°C for up to one week. For maximal stability, aliquot and store at -20°C. Avoid repeated freeze/ thaw cycles.

Usage

rhFGF8 is for research use only. It is not approved for human or animal use, or for application in clinical or *in vitro* diagnostic procedures.