

Animal-Free FGF-3 Protein, Human (His)

Cat. No.:	HY-P700065AF
Synonyms:	HBGF-3; FGF3; Proto-oncogene Int-2; Heparin-binding growth factor 3; INT2; Fibroblast Growth Factor 3
Species:	Human
Source:	E. coli
Accession:	P11487 (D28-R212)
Gene ID:	2248
Molecular Weight:	Approximately 21.99 kDa

PROPERTIES

AA Sequence	<p> M D A G G R G G V Y E H L G G A P R R R K L Y C A T K Y H L Q L H P S G R V N G S L E N S A Y S I L E I T A V E V G I V A I R G L F S G R Y L A M N K R G R L Y A S E H Y S A E C E F V E R I H E L G Y N T Y A S R L Y R T V S S T P G A R R Q P S A E R L W Y V S V N G K G R P R R G F K T R R T Q K S S L F L P R V L D H R D H E M V R Q L Q S G L P R P P G K G V Q P R R R R </p>
Biological Activity	Measure by its ability to induce 3T3 cells proliferation. The ED ₅₀ for this effect is <78 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 7.4.
Endotoxin Level	<0.1 EU per 1 µg of the protein by the LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p> FGF-3 Protein assumes a crucial role in orchestrating embryonic development, cell proliferation, and cell differentiation. Its significance is underscored by its necessity for normal ear development, reflecting its specific impact on tissue morphogenesis. FGF-3 engages in interactions with FGFR1 and FGFR2, forming molecular partnerships that underpin its diverse functions. The binding affinity between FGF-3 and its receptors is potentiated by heparan sulfate glycosaminoglycans, acting as essential coreceptors in this regulatory interplay. These intricate molecular interactions highlight the multifaceted nature of FGF-3 in shaping essential processes during development. </p>
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA