

## FGF-5 Protein, Human (GST)

<b>Cat. No.:</b>	HY-P700480
<b>Synonyms:</b>	Fibroblast growth factor 5; Heparin-binding growth factor 5; HBGF-5; Smag-82; FGF5
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	P12034 (A18-G268)
<b>Gene ID:</b>	2250
<b>Molecular Weight:</b>	54.6 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> AWAHGEKRLA   PKGQPGPAAT   DRNPRGSSSR   QSSSSAMSSS SASSSPAASL   GSQGSGLERQ   SFQWSPSGRR   TGSLYCRVGI GFHLQIYPDG   KVNGSHEANM   LSVLEIFAVS   QGIVGIRGVF SNKFLAMS KK   GKLHASAKFT   DDCKFRERFQ   ENSYNTYASA IHRTEKTGRE   WYVALNKR GK   AKRGCS PRVK   PQHISTHFLP RFKQSEQPEL   SFTVTVP EKK   KPPSPIKPKI   PLSAPRKNTN SVKYRLKFRF   G           </pre>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>FGF-5 protein assumes a crucial role in the intricate regulation of cell proliferation and differentiation, particularly in the context of the hair growth cycle. Its indispensability lies in orchestrating the normal progression of the hair follicle through different phases, functioning as a potent inhibitor of hair elongation. Specifically, FGF-5 promotes the transition from anagen, the growth phase, to catagen, the apoptosis-induced regression phase. This regulatory function is facilitated by its interactions with FGFR1 and FGFR2. Moreover, the affinity between fibroblast growth factors (FGFs) and their receptors is enhanced by the presence of heparan sulfate glycosaminoglycans, which serve as co-receptors in this intricate signaling</p>
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pathway. The multifaceted actions of FGF-5 underscore its pivotal role in coordinating cellular processes critical for hair growth and maintenance, emphasizing its significance in the dynamic regulation of tissue development.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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