

Animal-Free FGF-16 Protein, Human (His)

Cat. No.:	HY-P700059AF
Synonyms:	FGF-16; FGF-16; Fibroblast Growth Factor-16
Species:	Human
Source:	E. coli
Accession:	O43320 (A1-R207)
Gene ID:	8823
Molecular Weight:	Approximately 24.57 kDa

PROPERTIES

AA Sequence	<p> M A E V G G V F A S L D W D L H G F S S S L G N V P L A D S P G F L N E R L G Q I E G K L Q R G S P T D F A H L K G I L R R R Q L Y C R T G F H L E I F P N G T V H G T R H D H S R F G I L E F I S L A V G L I S I R G V D S G L Y L G M N E R G E L Y G S K K L T R E C V F R E Q F E E N W Y N T Y A S T L Y K H S D S E R Q Y Y V A L N K D G S P R E G Y R T K R H Q K F T H F L P R P V D P S K L P S M S R D L F H Y R </p>
Biological Activity	Measure by its ability to induce 3T3 cells proliferation. The ED ₅₀ for this effect is <31 ng/mL. The specific activity of recombinant human FGF-16 is >3 x 10 ⁴ IU/mg.
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	FGF-16 Protein assumes a pivotal role in orchestrating embryonic development, exerting regulatory influence over critical processes such as cell proliferation and differentiation. Its indispensability becomes evident in the intricate realm of cardiomyocyte proliferation and heart development, where FGF-16 plays a vital role. The protein intricately interacts with FGFR1 and FGFR2, forming essential molecular connections that contribute to the orchestration of signaling pathways
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crucial for embryonic development and cellular processes.

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

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