Animal-Free FGF-22 Protein, Human (His)

Cat. No.:	HY-P700063AF
Synonyms:	Fibroblast growth factor 22; FGF22; FGF-22
Species:	Human
Source:	E. coli
Accession:	Q9HCT0 (T23-S170)
Gene ID:	27006
Molecular Weight:	Approximately 29.35 kDa

PROPERTIES

AA Sequence	T P S A S R G P R S Y P H L E G D V R W R R L F S S T H F F L R V D P G G R V Q G T R W R H G Q D S I L E I R S V H V G V V V I K A V S S G F Y V A M N R R G R L Y G S R L Y T V D C R F R E R I E E N G H N T Y A S Q R W R R R G Q P M F L A L D R R G G P R P G G R T R R Y H L S A H F L P V L V S
Biological Activity	The ED_{50} is <2 ng/mL as measure by its ability to induce 3T3 cells proliferation.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 8.0.
Endotoxin Level	<0.1 EU per 1 μg of the protein by the LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 10 μg/mL in ddH_2O.
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-22, a multifaceted protein, is intricately involved in diverse physiological processes, including the fasting response, glucose homeostasis, lipolysis, and lipogenesis. Beyond its metabolic roles, FGF-22 exhibits the capacity to stimulate cell proliferation in vitro, highlighting its impact on cellular dynamics. Moreover, the protein may contribute to the intricate processes underlying hair development. Functionally, FGF-22 engages in significant molecular interactions, forming complexes with FGFR1 and FGFR2, essential players in FGF signaling pathways. Additionally, it interacts with FGFBP1, further emphasizing its involvement in finely tuned regulatory networks that govern various cellular and metabolic activities.

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

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