

FGF-12 Protein, Human (181a.a, His)

Cat. No.:	HY-P71959A
Synonyms:	EIEE47; FGF-12; Fgf12; FGF12_HUMAN; FGF12B; FHF-1; FHF1; Fibroblast growth factor 12; Fibroblast growth factor 12B; Fibroblast growth factor FGF 12b; Fibroblast growth factor homologous factor 1; Myocyte activating factor; Myocyte-activating factor
Species:	Human
Source:	E. coli
Accession:	P61328-2 (M1-T181)
Gene ID:	2257
Molecular Weight:	Approximately 23 kDa

PROPERTIES

AA Sequence	<pre> MESKEPQLKG IVTRLFSQQG YFLQMHPDGT IDGTKDENS D YTLFNLIPVG LRVVAIQGVK ASLYVAMNGE GYLYSSDVFT PECKFKESVF ENYYVIYSST LYRQQESGRA WFLGLNKEGQ IMKGNRVKKT KPS SHFV PKP IEVCMYREPS LHEIGEKQGR SRKSSGTPTM NGGKVVNQDS T </pre>
Biological Activity	Measured in a cell proliferation assay using NIH-3T3 mouse fibroblast cells. The ED ₅₀ for this effect is 1.702 ng/mL, corresponding to a specific activity is 5.875×10 ⁵ units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, 500 mM arginine, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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-12, a pivotal player in nervous system development and function, exerts its influence by positively regulating the activity of voltage-gated sodium channels. Specifically, FGF-12 contributes to the enhancement of neuronal excitability by modulating the voltage dependence of SCN8A fast inactivation, thereby influencing the dynamics of sodium channel behavior. This intricate regulatory role underscores FGF-12's significance in shaping neuronal activity and highlights its
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interaction with the C-terminal region of SCN9A, emphasizing its involvement in the intricate molecular interplay associated with voltage-gated sodium channel function.

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

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