FGF-12 Protein, Human

Cat. No.:	HY-P72654
Synonyms:	Fibroblast growth factor 12; FGF-12; FHF-1; FGF12B
Species:	Human
Source:	E. coli
Accession:	P61328-2 (M1-T181)
Gene ID:	2257
Molecular Weight:	18-20 kDa

PROPERTIES

AA Sequence	M E S K E P Q L K G I V T R L F S Q Q G Y F L Q M H P D G T I D G T K D E N S D Y T L F N L I P V G L R V V A I Q G V K A S L Y V A M N G E G Y L Y S S D V F T P E C K F K E S V F E N Y Y V I Y S S T L Y R Q Q E S G R A W F L G L N K E G Q I M K G N R V K K T K P S S H F V P K P I E V C M Y R E P S L H E I G E K Q G R S R K S S G T P T M N G G K V V N Q D S T
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, 5 mM EDTA, pH 7.5.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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 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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