

FKTN Protein, Human (Cell-Free, His)

Cat. No.:	HY-P702280
Synonyms:	Ribitol-5-phosphate transferase FKTN; Fukutin; Fukuyama-type congenital muscular dystrophy protein; Ribitol-5-phosphate transferase
Species:	Human
Source:	E. coli Cell-free
Accession:	O75072 (M1-Y461)
Gene ID:	2218
Molecular Weight:	56.5 kDa

PROPERTIES

AA Sequence	<pre> MSRINKNVVL ALLTLTSSAF LLFQLYYKH YLSTKNGAGL SKSKGSRIGF DSTQWRVKK FIMLTSNQNV PVFLIDPLIL ELINKNFEQV KNTSHGSTSQ CKFFCVPRDF TAFALQYHLW KNEEGWFRIA ENMGFQCLKI ESKDPRLDGI DLSLGTETPL HYICKLATHA IHLVVFHERS GNYLWHGHLR LKEHIDRK FV PFRKLQFGRY PGAFDREPELQ QVTVDGLEVL IPKDPMHFVE EVPHSRFIEC RYKEARAFFQ QYLLDDNTVEA VAFRKS AKEL LQLAAKTLNK LGVPFWLSSG TCLGWYRQCN IIPYSKDVDL GIFIQDYKSD IILAFQDAGL PLKHKFGKVE DSLELSFQ GK DDVKLDVFFF YEETHMWNNG GTQAKTGKKF KYLFPKFTLC WTEFVDMKVH VPCETLEYIE ANYGKTWKIP VKTWDWKRSP PNVQPNGIWP ISEWDEVIQL Y </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, 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 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
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

FKTN protein plays a crucial role in catalyzing the transfer of a ribitol-phosphate from CDP-ribitol to the distal N-acetylgalactosamine of the phosphorylated O-mannosyl trisaccharide found in alpha-dystroglycan (DAG1). This enzymatic activity represents the initial step in the formation of the ribitol 5-phosphate tandem repeat, linking the phosphorylated O-mannosyl trisaccharide to the ligand binding moiety composed of repeats of 3-xylosyl-alpha-1,3-glucuronic acid-beta-1. FKTN is essential for maintaining the normal localization of POMGNT1 in Golgi membranes and ensuring its proper activity. Additionally, FKTN may participate in interacting with and reinforcing a large complex that encompasses both the external and internal muscle membranes. There is also a potential association with brain development.

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

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