

Fukutin Protein, Cynomolgus, Recombinant (His & Myc)

General Information

Synonyms:	Ribitol-5-phosphate transferase FKTN;Fukutin;Ribitol-5-phosphate transferase;FKTN;FCMD;Fukuyama-type congenital muscular dystrophy protein
Protein Construction:	29-461 aa
Species:	Cynomolgus
Expression Host:	E. coli
Accession:	Q60HG0
Molecular Weight:	58.0 kDa (predicted)
AA Sequence:	<pre>KHYLSTRNGAGLSKSKGSRIGFDSTQWRAVKKFIMLTSNQNVPVFLIDPLILELINKNFEQVKNTSQGSISQCTF FCVPRDFTAFALQYHLWKNEEGWFRIAENMGFQCLKIESKDPRLDGIDSLSGTEIPLHYICKLAAHAIHLVVFH ERSSNYLWHGHLRLKEHIDRKVFPRKQLQFGRYPGAFDRPELQQVTVDGLVLIKDPMHFVEEVPHSRFIEC RYKEARAFFQQYLDNTVEAMAFRKSAREKLLQLAAKTLNKLGVPFWLSSGTCLGWYRQCNIIPYSKDVDLIGIF IQDYKSDIILAFQDAGLPLKHKFGKVEDSLELSFQKDDVKLIDIFFFYEETHMWNNGTQAKTGKKFKYLFPKF TLCWTEFVDMKVHPCETLEYIEANYGKTWKIPVKTWDWKRSPNVQPNGIWPISWDEVIQLY</pre>

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol.If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Catalyzes the transfer of CDP-ribitol to the distal N-acetylgalactosamine of the phosphorylated O-mannosyl trisaccharide (N-acetylgalactosamine-beta-3-N-acetylglucosamine-beta-4-(phosphate-6-)mannose), a carbohydrate structure present in alpha-dystroglycan (DAG1). This constitutes the first step in the formation of the ribitol 5-phosphate tandem repeat which links the phosphorylated O-mannosyl trisaccharide to the ligand binding moiety composed of repeats of 3-xylosyl-alpha-1,3-glucuronic acid-beta-1. May interact with and reinforce a large complex encompassing the outside and inside of muscle membranes. Could be involved in brain development.

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