

Human MTM1, His Tag, E. coli

Catalog Number LDG181PHE

Package

5 μg / 20 μg / 100 μg / Customized package

For full product information, images and publications, please visit our website.



Specifications

Species of Origin Human	Expression System Escherichia coli
Affinity Tag His Tag (N-term)	Storage Buffer Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Purity >95% as determined by SDS-PAGE analysis.	Molecular weight The protein has a calculated MW of 70.75 kDa. The protein migrates as 60 kDa uder reducing condition (SDS-PAGE analysis).
Endotoxin Level <1.0 EU per 1 μ g of the protein by the LAL method.	Form Lyophilized

Background

Tainan Headquarter

☑ bd@leadgene.com.tw

Innovation & Research Center

CLD Center

& +886-6-2536677

& +886-2-27065528

& +886-6-2536677



Background

Myotubularin is a protein that plays a crucial role in cellular processes and is primarily associated with a rare genetic disorder called myotubular myopathy (MTM). This disorder primarily affects skeletal muscles and is characterized by severe muscle weakness and impaired motor function.

Myotubularin is an enzyme that regulates the levels of a lipid molecule called phosphatidylinositol 3-phosphate (PI3P) within cells. PI3P is involved in various cellular functions, including membrane trafficking and signaling pathways. Mutations in the gene encoding myotubularin lead to a deficiency or loss of its enzymatic activity, disrupting PI3P metabolism and causing the development of MTM.

Synonyms

Phosphatidylinositol-3,5-bisphosphate 3phosphatase, Phosphatidylinositol-3-phosphate phosphatase, CG2

Sequence Note

Met1-Phe603

Uniprot ID

#Q13496

Instruction

Reconstitution

It is recommended to reconstitute the lyophilized protein in sterile H_2O to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient redissolved.

Shipping

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

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Stability & Storage

This product is stable after storage at:

- -20°C for 12 months in lyophilized state from date of receipt.
- -20°C or -80°C for 1 month under sterile conditions after reconstitution.

Avoid repeated freeze/thaw cycles.

Image

kDa	Μ
75 60 45	
35	-
25	LEADGENE
15	
10	

SDS-PAGE analysis of recombinant human MTM1.

Disclaimer : For Research Use or Further Manufacturing Only.

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