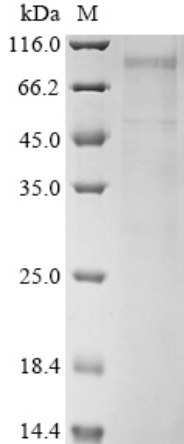


Datasheet

Product Name	Recombinant Mouse Perilipin-1(Plin1)
Catalog Number	MBS1306325
Expression host	<i>Mammalian cell</i>
Product Info	N-terminal MBP-tagged and C-terminal 6xHis-tagged
Buffer	Lyophilized from a 0.2 µm sterile filtered 20 mM Tris-HCl, 500 mM NaCl, 3%Trehalose, pH 8.0. The volume before lyophilization is 100µl/vial.
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Relevance	Modulator of adipocyte lipid metabolism. Coats lipid storage droplets to protect them from breakdown by hormone-sensitive lipase (HSL). Its absence may result in leanness (By similarity). Plays a role in unilocular lipid droplet formation by activating CIDEC. Their interaction promotes lipid droplet enlargement and directional net neutral lipid transfer. May modulate lipolysis and triglyceride levels.
AA sequence	MSMNKGPTLLDGDLPQENVLQRLVQLPVVSGTCECFQKTYNSTKEAHPLVAS VCNAYEKG VQGASNLAAWSMEPVVRRRLSTQFTAANELACRGLDHLEEKIPAL QYPPEKIASSELKGTISTRRLRSARNSISVPIASTSDKVLGATLAGCELALGMAKETA EYAANTRVGRLASGGADLALGSIEKVVEFLPPDKESAPSSGRQRTQKAPKAKP SLVRRVSTLANTLSRHTMQTTAWALKQGHSLAMWIPGVAPLSSLAQWGASAA MQVVSRRQSEVRVPWLHNLAASQDESHDDQTDTEGEETDDEEEEEEESEAEENV LREVTALPNPRGLLGGVVHTVQNTLRNTISAVTWAPAAVLGTVGRILHLTPAQ AVSSTKGRAMSLSDALKGVTDNVVDTVVHYVPLPRLSLMEPESEFRDIDNPSE AERKGSARPASPESTPRPGQPRGSLRSVRGLSAPSCPLDDKTEASARPGFLA MPREKPARRVSDSFFRPSVMEPI LGRAQYSQLRKKS
References	"Perilipin1 promotes unilocular lipid droplet formation through the activation of Fsp27 in adipocytes." Sun Z., Gong J., Wu H., Xu W., Wu L., Xu D., Gao J., Wu J.W., Yang H., Yang M., Li P. Nat. Commun. 4:1594-1594(2013)

Certificate of Analysis

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Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.		
Batch Number	DD04873a7g0		
Nature	Mouse Plin1 -(AA 1-517)- Q8CGN5 -Full Length		
Purification	Affinity purified using IMAC		
Recommended Storage	Short term	2 to 8 °C, one week from the date of receipt	
	Long term	-20 to -80 °C, twelve months from the date of receipt	
Form	Lyophilized powder		
Date of detection	2021.04.28		
Test Items	Specifications		Results
Purity	≥85%, by SDS-PAGE quantitative densitometry by Coomassie Blue Staining.		85%
Molecular Weight	Predicted band size: 99.6 kDa		Observed band size: 100 kDa

Electrophoretic parameters	(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.	
Aseptic Processing	<p>Lyophilized protein has been sterile filtered prior to lyophilization.</p> <p>However, the lyophilization process could potentially compromise sterility and please follow the instruction below if customers need a sterile filtered protein.</p> <p>Please sterile filter reconstituted lyophilized proteins with a 0.22µm filter in a clean bench (or other sterile environment) after reconstitution.</p> <p>Customers could use it as reference.</p>	
Endotoxin Level	<1.0 EU per 1µg of the protein by the LAL method.	pass
Activity	Not tested	
Conclusion	pass	

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