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Datasheet for ABIN1692441

ATG5 Protein (AA 1-275)



Overview

Target:

Quantity:	50 μg				
Target:	ATG5				
Protein Characteristics:	AA 1-275				
Origin:	Human				
Source:	Escherichia coli (E. coli)				
Protein Type:	Recombinant				
Product Details					
Purpose:	Recombinant Human Autophagy Related 5 Homolog/ATG5				
Sequence:	MTDDKDVLRD VWFGRIPTCF TLYQDEITER EAEPYYLLLP RVSYLTLVTD KVKKHFQKVM				
	RQEDISEIWF EYEGTPLKWH YPIGLLFDLL ASSSALPWNI TVHFKSFPEK DLLHCPSKDA				
	IEAHFMSCMK EADALKHKSQ VINEMQKKDH KQLWMGLQND RFDQFWAINR KLMEYPAEEN				
	GFRYIPFRIY QTTTERPFIQ KLFRPVAADG QLHTLGDLLK EVCPSAIDPE DGEKKNQVMI				
	HGIEPMLETP LQWLSEHLSY PDNFLHISII PQPTD				
Characteristics:	Recombinant Human Autophagy Related 5 Homolog/ATG5				
Purity:	> 95 % as determined by reducing SDS-PAGE.				
Sterility:	0.2 μm filtered				
Endotoxin Level:	Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test				
Target Details					

ATG5

Target Details

Alternative Name:	Autophagy Protein 5/ATG5 (ATG5 Products)			
Background:	Recombinant Human Autophagy protein 5/ATG5 is produced with our E. coli expression system. The target protein is expressed with sequence (Met1-Asp275) of Human ATG5. ATG5 is an E2 ubiquitin ligase which is necessary for autophagy. Its expression is a relatively late event in the apoptotic process, occurring downstream of caspase activity, dramatically highly expressed in apoptotic cells. It is activated by ATG7, conjugates to ATG12 and associates with isolation membrane to form cup-shaped isolation membrane and autophagosome. The conjugate complex detaches from the membrane immediately before or			
	after autophagosome formation is completed. ATG5 plays an important role in the apoptotic process, possibly within the modified cytoskeleton.			
Molecular Weight:	32.4 kDa			
UniProt:	Q9H1Y0			
Pathways:	Activation of Innate immune Response, Production of Molecular Mediator of Immune Respons , Autophagy			
Application Details				
Restrictions:	For Research Use only			
Handling				
Format:	Liquid			
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 μ g/mL. Dissolve the lyophilized protein in ddH20. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.			
Buffer:	Supplied as a 0.2 μ m filtered solution of 20 mM Tris,0.2M NaCl,1 mM DTT,40 % glycerol, pH 8.0 .			
Preservative:	Dithiothreitol (DTT)			
Precaution of Use:	This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.			
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.			
Storage:	-80 °C			
Storage Comment:	Store at < -20°C, stable for 6 months after receipt.			

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Please minimize freeze-thaw cycles.

Expiry Date: 6 months