

PROPERTIES

Product Data Sheet

Inhibitors • Screening Libraries • Proteins

PARL Protein, Human (Cell-Free, Myc)

Cat. No.:	HY-P702414
Synonyms:	Presenilin-associated rhomboid-like protein, mitochondrial; Mitochondrial intramembrane cleaving protease PARL
Species:	Human
Source:	E. coli Cell-free
Accession:	Q9H300 (F53-K379)
Gene ID:	55486
Molecular Weight:	37.8 kDa

AA Sequence						
/ stoequence	FRKAPRKVEP	R R S D P G T S G E	AYKRSALIPP	VEETVFYPSP		
	YPIRSLIKPL	FFTVGFTGCA	FGSAAIWQYE	SLKSRVQSYF		
	DGIKADWLDS	IRPQKEGDFR	KEINKWWNNL	SDGQRTVTGI		
	IAANVLVFCL	WRVPSLQRTM	IRYFTSNPAS	KVLCSPMLLS		
	TFSHFSLFHM	AANMYVLWSF	SSSIVNILGQ	EQFMAVYLSA		
	GVISNFVSYV	GKVATGRYGP	SLGASGAIMT	V L A A V C T K Ι Ρ		
	EGRLAIIFLP	MFTFTAGNAL	KAIIAMDTAG	MILGWKFFDH		
	AAHLGGALFG	IWYVTYGHEL	IWKNREPLVK	IWHEIRTNGP		
	K K G G G S K					
Appearance	Lyophilized powder.					
Formulation	Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.					
For the barrier to sold		AL				
Endotoxin Level	<1 EU/µg, determined by LAL method.					
Decensititution	It is not recommonded to r		an loss than 100 wa/millind			
Reconstitution	μ is not recommended to reconstitute to a concentration less than 100 µg/mL in ddm ₂ 0. For long term storage it is					
	recommended to add 5-50	% of glycerol (final concenti	ration). Our default final con	centration of glycerol is 50%. Custom	iers	
	could use it as reference.					
Storage & Stability	Stard at 20°C for 2 years	After reconstitution it is sta	blo at 1°C for 1 wook or 20°	C for longer (with corrier protein). It is	c .	
Storage & Stability	recommended to freeze all	iquets at 20°C or 20°C for a	vtondod storago	c tor tonger (with carrier protein). It is	5	
	recommended to neeze at		kterided storage.			
Shinning	Poom tomporaturo in cont	inontal US: may yany alcowy	noro			
Shipping	Room temperature in cont	inental 03, may vary elsewi	iere.			

DESCRIPTION	
Background	PARL emerges as a pivotal player in the intricate orchestration of cellular processes, particularly in the control of apoptosis during postnatal growth. Its essential role lies in the proteolytic processing of an antiapoptotic form of OPA1, preventing the

release of mitochondrial cytochrome c in response to intrinsic apoptotic signals. Additionally, PARL is indispensable for the maturation of PINK1, facilitating its transformation into the 52kDa mature form after cleavage by mitochondrial-processing peptidase (MPP). Notably, PARL exhibits versatility by mediating the cleavage of serine/threonine-protein phosphatase PGAM5 in damaged mitochondria, responding dynamically to the loss of mitochondrial membrane potential. Moreover, PARL contributes to the processing of CLPB, DIABLO/SMAC, STARD7, and TTC19, unveiling its multifaceted involvement in shaping mitochondrial function and morphology, with implications for apoptotic activity and cellular health.

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

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