**Proteins** 



## ABCB8 Protein, Human (Cell-Free, His, SUMO)

Cat. No.: HY-P702195

Synonyms: Mitochondrial potassium channel ATP-binding subunit; ATP-binding cassette sub-family B

member 8, mitochondrial; ABCB8; Mitochondrial ATP-binding cassette 1; M-ABC1; Mitochondrial

sulfonylurea-receptor; MITOSUR

Species: Human

Source: E. coli Cell-free

Accession: Q9NUT2 (G38-H693)

Gene ID: 11194 Molecular Weight: 87 kDa

## **PROPERTIES**

AA Sequence				
AA Sequence	GKTGQLHKAE	GEYSDGYRSS	SLLRAVAHLR	SQLWAHLPRA
	PLAPRWSPSA	WCWVGGALLG	PMVLSKHPHL	CLVALCEAEE
	APPASSTPHV	VGSRFNWKLF	WQFLHPHLLV	LGVAVVLALG
	AALVNVQIPL	LLGQLVEVVA	KYTRDHVGSF	MTESQNLSTH
	LLILYGVQGL	LTFGYLVLLS	HVGERMAVDM	RRALFSSLLR
	QDITFFDANK	TGQLVSRLTT	DVQEFKSSFK	LVISQGLRSC
	TQVAGCLVSL	SMLSTRLTLL	LMVATPALMG	VGTLMGSGLR
	KLSRQCQEQI	ARAMGVADEA	LGNVRTVRAF	AMEQREEERY
	GAELEACRCR	AEELGRGIAL	FQGLSNIAFN	CMVLGTLFIG
	GSLVAGQQLT	GGDLMSFLVA	SQTVQRSMAN	LSVLFGQVVR
	GLSAGARVFE	YMALNPCIPL	SGGCCVPKEQ	LRGSVTFQNV
	CFSYPCRPGF	EVLKDFTLTL	PPGKIVALVG	QSGGKTTVA
	SLLERFYDPT	AGVVMLDGRD	LRTLDPSWLR	GQVVGFISQE
	PVLFGTTIME	NIRFGKLEAS	DEEVYTAARE	ANAHEFITSF
	PEGYNTVVGE	RGTTLSGGQK	QRLAIARALI	KQPTVLILDE
	ATSALDAESE	RVVQEALDRA	SAGRTVLVIA	HRLSTVRGAH
	CIVVMADGRV	WEAGTH		
Appearance	Lyophilized powder.			
Formulation	Lyophilized from a 0.22 μm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.			
Endotoxin Level	<1 EU/μg, determined by LAL method.			
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O. For long term storage it is			
	recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers			
	could use it as reference.			
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is			
	recommended to freeze aliquots at -20°C or -80°C for extended storage.			

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Shipping

Room temperature in continental US; may vary elsewhere.

## **DESCRIPTION**

## Background

ABCB8 is the ATP-binding subunit of the mitochondrial potassium channel situated in the mitochondrial inner membrane. Teaming up with CCDC51/MITOK, it forms a protein complex localized within the mitochondria, orchestrating ATP-dependent potassium currents across the inner membrane, known as the mitoK(ATP) channel. Beyond its role in channel activity, ABCB8 is implicated in mitochondrial iron transport. It is essential for preserving normal cardiac function, potentially influencing mitochondrial iron export and regulating the maturation of cytosolic iron-sulfur cluster-containing enzymes (By similarity). Notably, the channel activity is inhibited by ATP through the ABCB8/MITOSUR subunit.

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

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