CHD1L Protein, Human (His-SUMO)

Cat. No.:	HY-P71588
Synonyms:	ALC1; Amplified in liver cancer 1; Amplified in liver cancer protein 1; chd1l; CHD1L_HUMAN; CHDL; Chromodomain helicase DNA binding protein 1 like; Chromodomain-helicase-DNA-binding protein 1-like; FLJ22530
Species:	Human
Source:	E. coli
Accession:	Q86WJ1 (704S-897P)
Gene ID:	9557
Molecular Weight:	Approximately 37.3 kDa

PROPERTIES

AA Sequence	S A E L D Y Q D P D A T S L K Y V S G D V T H P Q A G A E D A L I V H C V D D S G H W G R G G L F T A L E K R S A E P R K I Y E L A G K M K D L S L G G V L L F P V D D K E S R N K G Q D L L A L I V A Q H R D R S N V L S G I K M A A L E E G L K K I F L A A K K K K A S V H L P R I G H A T K G F N W Y G T E R L I R K H L A A R G I P T Y I Y Y F P R S K S A V L H A Q S S S S S S S R Q L V P
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	ABCB8 serves as 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, facilitating ATP-dependent potassium currents across the inner membrane, known as the mitoK(ATP) channel. Additionally, ABCB8 plays a crucial role in mitochondrial iron transport and is essential for maintaining normal cardiac function, potentially influencing mitochondrial iron export and regulating the maturation of cytosolic iron sulfur cluster-containing enzymes. Notably, the channel activity is modulated 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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