SLC25A19 Protein, Human (Cell-Free, His)

Cat. No.:	HY-P702438
Synonyms:	Mitochondrial thiamine pyrophosphate carrier; Mitochondrial thiamine pyrophosphate transporter; MTPPT; Mitochondrial uncoupling protein 1; Solute carrier family 25 member 19
Species:	Human
Source:	E. coli Cell-free
Accession:	Q9HC21 (M1-R320)
Gene ID:	60386
Molecular Weight:	37.0 kDa

PROPERTIES

AA Sequence	M V G Y D P K P D G R N N T K F Q V A V A G S V S G L V T R A L I S P F D V I K I R F Q L Q H E R L S R S D P S A K Y H G I L Q A S R Q I L Q E E G P T A F W K G H V P A Q I L S I G Y G A V Q F L S F E M L T E L V H R G S V Y D A R E F S V H F V C G G L A A C M A T L T V H P V D V L R T R F A A Q G E P K V Y N T L R H A V G T M Y R S E G P Q V F Y K G L A P T L I A I F P Y A G L Q F S C Y S S L K H L Y K W A I P A E G K K N E N L Q N L L C G S G A G V I S K T L T Y P L D L F K K R L Q V G G F E H A R A A F G Q V R R Y K G L M D C A K Q V L Q K E G A L G F F K G L S P S L L K A A L S T G F M F F S Y E F F C N V F H C M N R T A S Q R
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 μg/mL in ddH_2O. 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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	SLC25A19, a mitochondrial transporter, plays a crucial role in facilitating the uptake of thiamine diphosphate into the mitochondria. The mechanism underlying its antiporter activity remains unclear, as it is yet to be determined whether this activity is influenced by the membrane potential or the proton electrochemical gradient within the mitochondria.

Nonetheless, SLC25A19's function as a transporter highlights its significance in mitochondrial processes, particularly in the transport of thiamine diphosphate, a crucial coenzyme involved in various metabolic pathways.

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

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