

SLC30A8 Protein, Mouse (Cell-Free, His)

Cat. No.:	HY-P702442
Synonyms:	Proton-coupled zinc antiporter SLC30A8; Solute carrier family 30 member 8; Zinc transporter 8; ZnT-8
Species:	Mouse
Source:	E. coli Cell-free
Accession:	Q8BGG0 (M1-D367)
Gene ID:	239436
Molecular Weight:	43.0 kDa

PROPERTIES

AA Sequence	<pre> M E F L E R T Y L V N D Q A T K M Y A F P L D R E L R Q K P V N K D Q C P G D R P E H P E A G G I Y H C H N S A K A T G N R S S K Q A H A K W R L C A A S A I C F I F M V A E V V G G H V A G S L A I L T D A A H L L I D L T S F L L S L F S L W L S S R P P S K R L T F G W Y R A E I L G A L L S V L C I W V V T G V L L Y L A C E R L L Y P D Y Q I Q A G I M I T V S G C A V A A N I V L T M I L H Q R N F G Y N H K D V Q A N A S V R A A F V H A L G D V F Q S I S V L I S A L I I Y F K P D Y K I A D P V C T F I F S I L V L A S T V M I L K D F S I L L M E G V P K G L S Y N S V K E I I L A V D G V I S V H S L H I W S L T V N Q V I L S V H V A T A A S Q D S Q S V R T G I A Q A L S S F D L H S L T I Q I E S A A D Q D P S C L L C E D P Q D </pre>
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.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ 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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	SLC30A8 Protein, identified as a proton-coupled zinc ion antiporter, plays a pivotal role in the intricate regulation of insulin
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secretion. Functioning as a mediator, SLC30A8 facilitates the entry of zinc into the lumen of pancreatic beta cell secretory granules. This process is crucial for maintaining the appropriate zinc concentration within the granules, ultimately influencing the dynamics of insulin release. By participating in the transport of zinc, SLC30A8 contributes to the finely tuned orchestration of cellular events within pancreatic beta cells, highlighting its significance in the physiological control of insulin secretion and, consequently, glucose homeostasis.

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

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