

SLC23A2 Protein, Human (Cell-Free, His)

Cat. No.:	HY-P702435
Synonyms:	Solute carrier family 23 member 2; Na(+)/L-ascorbic acid transporter 2; Nucleobase transporter-like 1 protein; Sodium-dependent vitamin C transporter 2; hSVCT2; Yolk sac permease-like molecule 2
Species:	Human
Source:	E. coli Cell-free
Accession:	Q9UGH3 (M1-G650)
Gene ID:	9962
Molecular Weight:	71.3 kDa

PROPERTIES

AA Sequence

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MMG I G K N T T S   K S M E A G S S T E   G K Y E D E A K H P   A F F T L P V V I N
G G A T S S G E Q D   N E D T E L M A I Y   T T E N G I A E K S   S L A E T L D S T G
S L D P Q R S D M I   Y T I E D V P P W Y   L C I F L G L Q H Y   L T C F S G T I A V
P F L L A D A M C V   G Y D Q W A T S Q L   I G T I F F C V G I   T T L L Q T T F G C
R L P L F Q A S A F   A F L A P A R A I L   S L D K W K C N T T   D V S V A N G T A E
L L H T E H I W Y P   R I R E I Q G A I I   M S S L I E V V I G   L L G L P G A L L K
Y I G P L T I T P T   V A L I G L S G F Q   A A G E R A G K H W   G I A M L T I F L V
L L F S Q Y A R N V   K F P L P I Y K S K   K G W T A Y K L Q L   F K M F P I I L A I
L V S W L L C F I F   T V T D V F P P D S   T K Y G F Y A R T D   A R Q G V L L V A P
W F K V P Y P F Q W   G L P T V S A A G V   I G M L S A V V A S   I I E S I G D Y Y A
C A R L S C A P P P   P I H A I N R G I F   V E G L S C V L D G   I F G T G N G S T S
S S P N I G V L G I   T K V G S R R V I Q   C G A A L M L A L G   M I G K F S A L F A
S L P D P V L G A L   F C T L F G M I T A   V G L S N L Q F I D   L N S S R N L F V L
G F S I F F G L V L   P S Y L R Q N P L V   T G I T G I D Q V L   N V L L T T A M F V
G G C V A F I L D N   T I P G T P E E R G   I R K W K K G V G K   G N K S L D G M E S
Y N L P F G M N I I   K K Y R C F S Y L P   I S P T F V G Y T W   K G L R K S D N S R
S S D E D S Q A T G
  
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Appearance Lyophilized powder.

Formulation Lyophilized from a 0.22 μ m filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Endotoxin Level <1 EU/ μ g, determined by LAL method.

Reconstitution It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH₂O. 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**

SLC23A2, a sodium/ascorbate cotransporter, plays a pivotal role in the electrogenic uptake of vitamin C, demonstrating a stoichiometry of 2 Na⁽⁺⁾ ions for each ascorbate molecule. This transporter facilitates the efficient and specific transport of ascorbate, showcasing its significance in cellular vitamin C homeostasis. The electrogenic nature of the uptake process highlights the involvement of electrical potential in the translocation of both sodium ions and ascorbate across cellular membranes, underscoring SLC23A2's crucial function in mediating the influx of vitamin C into cells.

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

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