

SLC14A1 Protein, Human (Cell-Free, His)

Cat. No.:	HY-P702434
Synonyms:	Urea transporter 1; Solute carrier family 14 member 1; Urea transporter, erythrocyte
Species:	Human
Source:	E. coli Cell-free
Accession:	Q13336 (M1-L389)
Gene ID:	6563
Molecular Weight:	48.6 kDa

PROPERTIES

AA Sequence	<pre> M E D S P T M V R V D S P T M V R G E N Q V S P C Q G R R C F P K A L G Y V T G D M K E L A N Q L K D K P V V L Q F I D W I L R G I S Q V V F V N N P V S G I L I L V G L L V Q N P W W A L T G W L G T V V S T L M A L L L S Q D R S L I A S G L Y G Y N A T L V G V L M A V F S D K G D Y F W W L L L P V C A M S M T C P I F S S A L N S M L S K W D L P V F T L P F N M A L S M Y L S A T G H Y N P F F P A K L V I P I T T A P N I S W S D L S A L E L L K S I P V G V G Q I Y G C D N P W T G G I F L G A I L L S S P L M C L H A A I G S L L G I A A G L S L S A P F E D I Y F G L W G F N S S L A C I A M G G M F M A L T W Q T H L L A L G C A L F T A Y L G V G M A N F M A E V G L P A C T W P F C L A T L L F L I M T T K N S N I Y K M P L S K V T Y P E E N R I F Y L Q A K K R M V E S P L </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	SLC14A1 Protein assumes a pivotal role in cellular processes by mediating the transport of urea across the cell membrane of
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erythrocytes, driven by a concentration gradient. Additionally, SLC14A1 plays a crucial role in the urinary concentrating mechanism by mediating the transport of urea across the cell membrane of the renal inner medullary collecting duct. This function is integral to the regulation of water transport in erythrocytes. The protein's dual role in urea transport underscores its significance in maintaining cellular osmotic balance and contributing to the physiological processes associated with urinary concentration.

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

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