SLC14A1 Protein, Human (Sf9, His, MBP, FLAG)

Cat. No.:	HY-P702009
Synonyms:	SLC14A1; Urea transporter 1; Solute carrier family 14 member 1; Urea transporter; erythrocyte
Species:	Human
Source:	Sf9 insect cells
Accession:	Q13336 (E2-L389)
Gene ID:	6563
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	SLC14A1 Protein assumes a pivotal role in cellular processes by mediating the transport of urea across the cell membrane of 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.

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