

SLC22A6 Protein, Human (Sf9, His, Strep, FLAG)

Cat. No.:	HY-P702011
Synonyms:	SLC22A6; Solute carrier family 22 member 6; Organic anion transporter 1; hOAT1; PAH transporter; hPAHT; Renal organic anion transporter 1; hROAT1
Species:	Human
Source:	Sf9 insect cells
Accession:	Q4U2R8 (A2-L563)
Gene ID:	9356
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	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	SLC22A6 protein functions as a secondary active transporter, acting as a Na(+)-independent organic anion (OA)/dicarboxylate antiporter. This transporter facilitates the uptake of OAs across the basolateral side of proximal tubule epithelial cells, contributing to the renal elimination of endogenous OAs from the systemic circulation into urine. Additionally, SLC22A6 is involved in the transport of coenzymes such as tetrahydrobiopterin (BH4), dihydrobiopterin (BH2), and sepiapterin to urine, determining baseline levels of blood bipterins. It also plays a role in the transport of prostaglandins, cyclic nucleotides, neuroactive tryptophan metabolites, and potentially toxic compounds like uremic toxins (e.g., indoxyl sulfate, hippurate) and xenobiotics (e.g., ochratoxin). Moreover, SLC22A6 may contribute to the disposition of uremic toxins and xenobiotics by the renal organic anion secretory pathway, reducing their undesired toxicological effects. In testes, it potentially participates in the transport of organic compounds across the blood-testis barrier.
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Caution: Product has not been fully validated for medical applications. For research use only.

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