

SLC19A1 Protein, Human (Sf9, His, Strep, FLAG)

Cat. No.:	HY-P702007
Synonyms:	SLC19A1; Reduced folate transporter; FOLT; Intestinal folate carrier 1; IFC-1; Placental folate transporter; Reduced folate carrier protein; RFC; hRFC; Reduced folate transporter 1; RFT-1; Solute carrier family 19 member 1; hSLC19A1
Species:	Human
Source:	Sf9 insect cells
Accession:	P41440 (V2-Q591)
Gene ID:	6573
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	The SLC19A1 protein operates as an antiporter, facilitating the import of reduced folates or a subset of cyclic dinucleotides through a mechanism driven by the export of organic anions. Functioning as a secondary active transporter, it exports intracellular organic anions down their concentration gradients to facilitate the uptake of its substrates. The protein exhibits high affinity for N5-methyltetrahydrofolate, the predominant circulating form of folate, and can mediate the import of the antifolate drug methotrexate. Additionally, it serves as an importer for immunoreactive cyclic dinucleotides, including cyclic GMP-AMP (2'-3'-cGAMP), an immune messenger produced in response to DNA viruses in the cytosol, and its linkage isomer 3'-3'-cGAMP, playing a role in triggering larger immune responses. Furthermore, the organic anion 5-amino-4-imidazolecarboxamide riboside (AICAR), when phosphorylated to AICAR monophosphate, serves as a substrate for the antiporter activity of SLC19A1.
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Caution: Product has not been fully validated for medical applications. For research use only.

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