

## SLC52A1 Protein, Human (Sf9, His, MBP, FLAG)

Cat. No.:	HY-P702040
Synonyms:	SLC52A1; Solute carrier family 52; riboflavin transporter; member 1; Porcine endogenous retrovirus A receptor 2; PERV-A receptor 2; huPAR-2; Protein GPR172B; Riboflavin transporter 1; hRFT1
Species:	Human
Source:	Sf9 insect cells
Accession:	Q9NWF4 (A2-P448)
Gene ID:	55065
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 SLC52A1 Protein operates as a plasma membrane transporter, facilitating the cellular uptake of the water-soluble vitamin B2/riboflavin, which plays a crucial role in biochemical oxidation-reduction reactions associated with carbohydrate, lipid, and amino acid metabolism. Notably, humans are reliant on external sources for vitamin B2/riboflavin as they lack the ability to synthesize it endogenously, emphasizing the significance of intestinal absorption for obtaining this essential nutrient. In addition to its role in vitamin transport, SLC52A1 may function as a cell receptor for retroviral envelopes, particularly those resembling the porcine endogenous retrovirus (PERV-A), suggesting potential implications in microbial infection. This dual functionality highlights the diverse roles of SLC52A1 in cellular processes, ranging from fundamental metabolic pathways to interactions with retroviral elements.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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