

## SLC37A4 Protein, Human (Sf9, His, MBP, FLAG)

Cat. No.:	HY-P702035
Synonyms:	SLC37A4; Glucose-6-phosphate exchanger SLC37A4; Glucose-5-phosphate transporter; Glucose-6-phosphate translocase; Solute carrier family 37 member 4; Transformation-related gene 19 protein; TRG-19
Species:	Human
Source:	Sf9 insect cells
Accession:	O43826 (A2-E429)
Gene ID:	2542
Molecular Weight:	

### PROPERTIES

Appearance	Solution.
Endotoxin Level	<1 EU/ $\mu$ g, 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	SLC37A4 protein serves as an inorganic phosphate and glucose-6-phosphate antiporter located in the endoplasmic reticulum. Its primary function involves the transport of cytoplasmic glucose-6-phosphate into the endoplasmic reticulum lumen, while simultaneously translocating inorganic phosphate in the opposite direction. This activity, documented in recent research, contributes to the complex responsible for glucose production through glycogenolysis and gluconeogenesis. As a crucial participant in these metabolic pathways, SLC37A4 plays a central role in the homeostatic regulation of blood glucose levels, highlighting its significance in maintaining metabolic balance.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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