SLC30A10 Protein, Human (Sf9, His, MBP, FLAG)

Cat. No.:	HY-P702033
Synonyms:	SLC30A10; Zinc transporter 10; ZnT-10; Manganese transporter SLC30A10; Solute carrier family 30 member 10
Species:	Human
Source:	Sf9 insect cells
Accession:	Q6XR72 (G2-F485)
Gene ID:	55532
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	SLC30A10 protein, a calcium:manganese antiporter localized in the plasma membrane, serves as a critical mediator for the efflux of intracellular manganese, operating in conjunction with an active extracellular calcium exchange. Essential for maintaining intracellular manganese homeostasis, this protein plays a crucial role in facilitating the proper functioning of enzymes vital for neurotransmitter metabolism and other neuronal metabolic pathways. Given manganese's dual role as an essential cofactor and potential cytotoxic agent inducing oxidative stress, mitochondrial dysfunction, and apoptosis, SLC30A10 emerges as a key regulator in balancing manganese levels within cells. Beyond its role in manganese transport, there is suggestive evidence indicating a potential intracellular zinc ion transporter activity for SLC30A10. This suggests a broader impact, as it may directly regulate intracellular zinc ion homeostasis, influencing various signaling pathways and biological processes.

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