

SLC30A2 Protein, Human (Sf9, His, MBP, FLAG)

Cat. No.:	HY-P702031
Synonyms:	SLC30A2; Zinc transporter 2; ZnT-2; Solute carrier family 30 member 2
Species:	Human
Source:	Sf9 insect cells
Accession:	Q9BRI3 (E2-D323)
Gene ID:	7780
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	SLC30A2 Protein serves as an essential electroneutral proton-coupled antiporter, facilitating the concentration of zinc ions into various intracellular organelles, including endosomes, zymogen granules, and mitochondria. This pivotal function plays a crucial role in maintaining cellular zinc homeostasis, providing protection against the potential cytotoxic effects of excess zinc. In addition to its intracellular role, SLC30A2 regulates the zinc concentration in milk by transporting zinc ions into secretory vesicles of mammary cells. The protein's involvement in concentrating zinc ions into lysosomes is linked to lysosomal-mediated cell death during early mammary gland involution. Furthermore, SLC30A2 acts as an electroneutral proton-coupled antiporter that mediates the efflux of zinc ions through the plasma membrane, underscoring its multifaceted role in zinc transport across various cellular compartments.
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Caution: Product has not been fully validated for medical applications. For research use only.

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