

SLC40A1 Protein, Human (Sf9, His, MBP, FLAG)

Cat. No.:	HY-P702024
Synonyms:	SLC40A1; Solute carrier family 40 member 1; Ferroportin-1; Iron-regulated transporter 1
Species:	Human
Source:	Sf9 insect cells
Accession:	Q9NP59 (T2-V571)
Gene ID:	30061
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	SLC40A1 emerges as a crucial player in systemic iron homeostasis by orchestrating the transportation of Fe(2+) from the intracellular milieu to the extracellular space. With a central role in maintaining the delicate balance of iron levels, SLC40A1 facilitates the transfer of iron from various cell types, including intestinal, splenic, hepatic cells, macrophages, and erythrocytes, into the bloodstream, ensuring a steady supply of iron to diverse tissues (By similarity). This multifaceted protein governs essential processes such as dietary iron uptake, recycling of iron by macrophages and erythrocytes, and the controlled release of iron stores in hepatocytes (By similarity). Notably, in conditions of iron surplus in the serum, elevated levels of circulating HAMP/hepcidin prompt the degradation of SLC40A1, thereby restricting the efflux of iron into the plasma.
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA