LIV-1/SLC39A6 Protein, Rat (Sf9, His)

Cat. No.:	HY-P78616
Synonyms:	SLC39A6; LIV-1; ZIP6; Zinc transporter ZIP6; ZIP-6
Species:	Rat
Source:	Sf9 insect cells
Accession:	Q4V887 (L21-W311)
Gene ID:	291733
Molecular Weight:	Approximately 46 kDa. The reducing (R) protein migrates as 46 kDa in SDS-PAGE maybe due to glycosylation.

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized a 0.22 μm filtered solution of PBS, 6% Trehalose, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The LIV-1/SLC39A6 protein is a zinc-influx transporter that plays a crucial role in maintaining zinc balance and promoting the transition of epithelial cells to mesenchymal cells. By forming a heterodimer with SLC39A10, it facilitates the uptake of zinc, triggering the process of epithelial-to-mesenchymal transition (EMT). This heterodimer also regulates the phosphorylation of NCAM1 and its integration into focal adhesion complexes during EMT. The influx of zinc inactivates GSK3B, leading to the down-regulation of adherence genes like CDH1, which results in the loss of cell adherence. Additionally, the SLC39A10-SLC39A6 heterodimer is vital for initiating mitosis by importing zinc into cells, initiating a pathway that leads to the onset of mitosis. It also plays a role in regulating T-cell receptor signaling by mediating zinc uptake in activated lymphocytes. Furthermore, it regulates the influx of zinc necessary for proper meiotic progression to metaphase II (MII), facilitating the transition from oocyte to egg.

Caution: Product has not been fully validated for medical applications. For research use only.

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