LIV-1/SLC39A6 Protein, Human (Baculovirus, His)

Cat. No.:	HY-P700463
Synonyms:	SLC39A6; LIV-1; ZIP6; Zinc transporter ZIP6; ZIP-6
Species:	Human
Source:	Sf9 insect cells
Accession:	Q13433 (F29-W325)
Gene ID:	25800
Molecular Weight:	35.0 kDa

PROPERTIES

AA Sequence	F P Q T T E K I S P N W E S G I N V D L A I S T R Q Y H L Q Q L F Y R Y G E N N S L S V E G F R K L L Q N I G I D K I K R I H I H H D H D H H S D H E H H S D H E R H S D H E H H S E H E H H S D H D H H S H H N H A A S G K N K R K A L C P D H D S D S S G K D P R N S Q G K G A H R P E H A S G R R N V K D S V S A S E V T S T V Y N T V S E G T H F L E T I E T P R P G K L F P K D V S S S T P P S V T S K S R V S R L A G R K T N E S V S E P R K G F M Y S R N T N E N P Q E C F N A S K L L T S H G M G I Q V P L N A T E F N Y L C P A I I N Q I D A R S C L I H T S E K K A E I P P K T Y S L Q I A W
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0
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	LIV-1/SLC39A6, a zinc-influx transporter, intricately regulates zinc homeostasis and contributes to the induction of epithelial-to-mesenchymal transition (EMT). Functionally, when forming a heterodimer with SLC39A10, this complex mediates cellular zinc uptake, serving as a pivotal trigger for EMT. The SLC39A10-SLC39A6 heterodimer not only controls NCAM1 phosphorylation but also influences its integration into focal adhesion complexes during EMT. The zinc influx facilitated by this heterodimeric complex plays a crucial role in inactivating GSK3B, leading to nuclear accumulation of

unphosphorylated SNAI1, which subsequently down-regulates adherence genes like CDH1, thereby promoting loss of cell adherence. Beyond its involvement in EMT, the SLC39A10-SLC39A6 heterodimer plays a fundamental role in initiating mitosis by importing zinc into cells, triggering a pathway that culminates in the onset of mitosis. Additionally, this transporter complex contributes to T-cell receptor signaling regulation and facilitates proper zinc influx for meiotic progression during the oocyte-to-egg transition.

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