Data Sheet (Cat.No.TMPY-07157)

TargetMol

SLC39A6 Protein, Human, Recombinant (HEK293, His)

General Information

Synonyms:	LIV1;LIV-1;ZIP6
Protein Construction:	A DNA sequence encoding the Human SLC39A6 (Q13433-1) (Phe29-Trp325) was expressed with a polyhistidine tag at the C-terminus.
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q13433-1
Molecular Weight:	35.08 kDa (predicted); 55.2 kDa (reducing contition, due to glycosylation)

QC Testing

Biological Activity:	Immobilized SLC39A6 Protein, Human, Recombinant (HEK293, His) (Cat#TMPY-07157) at 2 μg/mL (100 μL/well) can bind Anti-LIV-1 Antibody, the EC50 is 5-15 ng/mL.
Purity:	≥ 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from sterile PBS, pH 7.4. Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hardcopy of datasheet or the lot-specific COA.

Preparation and Storage

Reconstitution:

Please refer to the lot-specific COA.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Along with the SLC30 family, SLC39 family members regulate zinc movement in cells. SLC39 metal ion transporters accumulate zinc into the cytosol. SLC39A6, also known as LIV-1, belongs to a new subfamily of Zrt, Irt-like protein zinc transporters (LZTs). It is involved in maintaining the intracellular homeostasis of zinc, an ion that is essential in the control of cellular growth and differentiation. SLC39A6 plays a critical role in maintaining zinc homeostasis,

and was originally identified as an estrogen-induced gene in a breast cancer cell line. Generally, elevated SLC39A6 expression is reportedly related to cancer progression in other various types of cancer, including breast, prostate, pancreatic, cervical and liver cancers.

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