Data Sheet (Cat.No.TMPY-06226)

TargetMol

SLC39A6/LIV-1 Protein, Cynomolgus, Recombinant (His)

General Information

Synonyms:	solute carrier family 39 member 6
Protein Construction:	A DNA sequence encoding the cynomolgus SLC39A6 (A0A2K5WH46-1) (Met1-Gln308) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Leu 21
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	A0A2K5WH46-1
Molecular Weight:	34 kDa (predicted)

QC Testing

Biological Activity:	Immobilized Cynomolgus SLC39A6/LIV-1 His at 2 μg/mL (100 μL/well) can bind Rabbit Anti-SLC39A6/LIV-1 Antibody, the EC50 of Rabbit Anti-SLC39A6/LIV-1 Antibody is 15-100 ng/mL.
Purity:	> 95 % as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM MES, 150 mM NaCl, 10% glycerol, 0.02% Tween 80, pH 6. 0.Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

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.

Reference

Cui XB, et al. (2015) Slc39a6: A potential target for diagnosis and therapy of esophageal carcinoma. J Transl Med 13 321.