

Human SLC39A8 Protein

Cat. No. SLC-HM1A8



Description

Source	Recombinant Human SLC39A8 Protein is expressed from HEK293 with His tag at the C-terminus.
	It contains Glu23-Gly132.
Accession	Q9C0K1-1
Molecular Weight	The protein has a predicted MW of 13.28 kDa. Due to glycosylation, the protein migrates to 27-40 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

Formulation	Lyophilized from 0.22 µm filtered solution in PBS, 8% trehalose (pH 7.4).
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

The Zn transporter ZIP8 (also known as SLC39A8) is an important Zn²⁺ importer; aberrant Zn²⁺ influx mediated by ZIP8 can lead to the pathogenesis of osteoarthritis and inflammatory diseases. ZIP8 also mediates the cellular uptake of divalent metal ions including iron, manganese, and the toxic heavy metal cadmium.

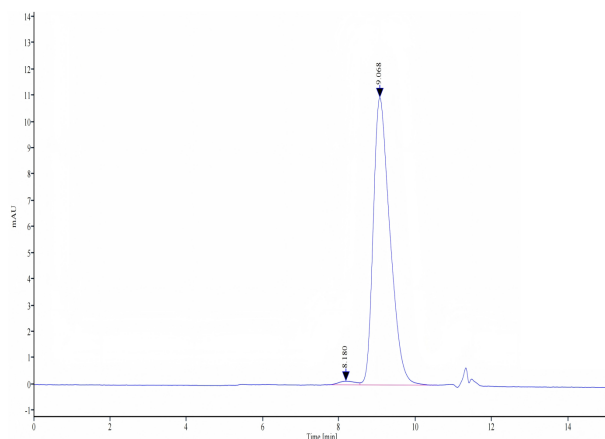
Assay Data

Bis-Tris PAGE



Human SLC39A8 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

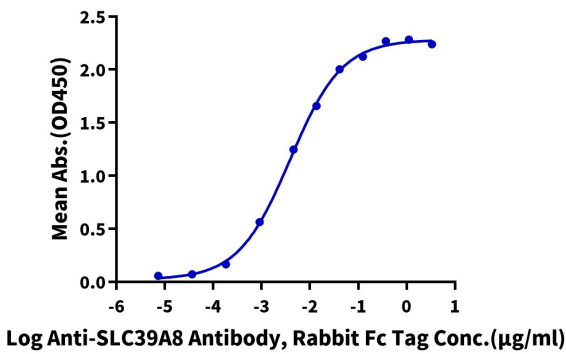


The purity of Human SLC39A8 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human SLC39A8, His Tag ELISA
0.05µg Human SLC39A8, His Tag Per Well



Immobilized Human SLC39A8, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-SLC39A8 Antibody, Rabbit Fc Tag with the EC50 of 3.9ng/ml determined by ELISA.