

High affinity copper uptake protein 1 (SLC31A1) Recombinant Protein | SLC31A1 recombinant protein

Recombinant Human High affinity copper uptake protein 1 (SLC31A1)(Active)

CATALOG #
AAA279387

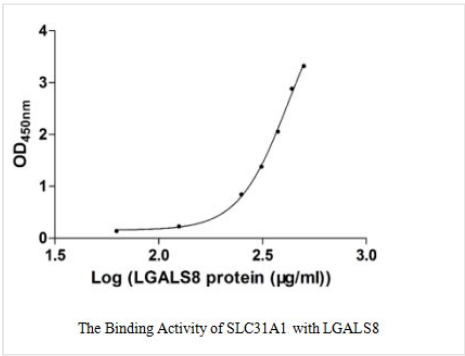
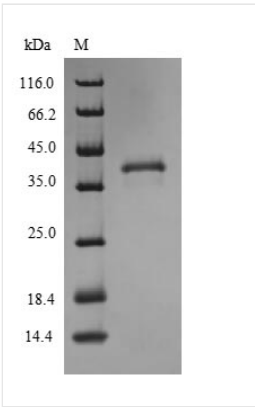
HOST
E coli (in vitro)

PRODUCT SYNONYMS

High affinity copper uptake protein 1 (SLC31A1); Recombinant Human High affinity copper uptake protein 1 (SLC31A1)(Active); Copper transporter 1Short name:hCTR1Solute carrier family 31 member 1; SLC31A1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E coli (in vitro)
Purity/Purification	Greater than 90% as determined by SDS-PAGE.
Form/Format	Lyophilized powder. Lyophilized from 20 mM Tris-HCl, 0.15 M NaCl, 0.05% DDM, 6% Trehalose, pH 8.0
Sequence	MDHSHHMGMS YMDSNSTMQP SHHPTTSAS HSHGGDSSM MMMPMTFYFG FKNVELLFSG LVINTAGEMA GAFVAVFLA MFYEGLKIAR ESLLRKSQVS IRYNSMPVPG PNGTILMETH KTVGQQMLSF PHLLQTVLHI IQVVISYFLM LIFMTYNGYL CIAVAAGAGT GYFLFSWKKA VVVDITEHCH
Sequence Length	1-190aa; Full Length
Species	Homo sapiens (Human)
Tag	N-terminal 6xHis-SUMO-tagged
Transmembrane Domain	3TM
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized SLC31A1 at 5ug/ml can bind human LGALS8, the EC50 of human LGALS8 is 373.90-524.30ug/ml.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20 degree C/-80 degree C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Preparation and Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 degree C/-80 degree C. The shelf life of lyophilized form is 12 months at -20 degree C/-80 degree C. Notes: Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week.



Bioactivity

SDS-PAGE
Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

ADDITIONAL INFORMATION

Related Product Information for SLC31A1 recombinant protein	High-affinity, saturable copper transporter involved in dietary copper uptake
Product Categories/Family for SLC31A1 recombinant protein	Others

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507015
NCBI GeneID	1317
NCBI Accession #	NP_001850.1
NCBI GenBank Nucleotide #	NM_001859.3
UniProt Accession #	O15431; Q53GR5; Q5T1M4; A8K8Z6
Molecular Weight	21,091 Da
NCBI Official Full Name	high affinity copper uptake protein 1
NCBI Official Synonym Full Names	solute carrier family 31 (copper transporter), member 1
NCBI Official Symbol	SLC31A1
NCBI Official Synonym Symbols	CTR1; COPT1
NCBI Protein Information	high affinity copper uptake protein 1; copper transporter 1; copper transport 1 homolog; solute carrier family 31 member 1; solute carrier family 31 (copper transporters), member 1
UniProt Protein Name	High affinity copper uptake protein 1
UniProt Gene Name	SLC31A1
UniProt Synonym Gene Names	COPT1; CTR1; hCTR1
UniProt Entry Name	COPT1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.