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SLC7A8 Protein (AA 1-535) (rho-1D4 tag)



Image



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Overview

Quantity:	1 mg
Target:	SLC7A8
Protein Characteristics:	AA 1-535
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC7A8 protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:

MEEGARHRNN TEKKHPGGGE SDASPEAGSG GGGVALKKEI GLVSACGIIV GNIIGSGIFV
SPKGVLENAG SVGLALIVWI VTGFITVVGA LCYAELGVTI PKSGGDYSYV KDIFGGLAGF
LRLWIAVLVI YPTNQAVIAL TFSNYVLQPL FPTCFPPESG LRLLAAICLL LLTWVNCSSV
RWATRVQDIF TAGKLLALAL IIIMGIVQIC KGEYFWLEPK NAFENFQEPD IGLVALAFLQ
GSFAYGGWNF LNYVTEELVD PYKNLPRAIF ISIPLVTFVY VFANVAYVTA MSPQELLASN
AVAVTFGEKL LGVMAWIMPI SVALSTFGGV NGSLFTSSRL FFAGAREGHL PSVLAMIHVK
RCTPIPALLF TCISTLLMLV TSDMYTLINY VGFINYLFYG VTVAGQIVLR WKKPDIPRPI KINLLFPIIY
LLFWAFLLVF SLWSEPVVCG IGLAIMLTGV PVYFLGVYWQ HKPKCFSDFI ELLTLVSQKM
CVVVYPEVER GSGTEEANED MEEQQQPMYQ PTPTKDKDVA GQPQP

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- Human SLC7A8 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:

- 1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.
- 2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.
- 3. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. Eluate fractions are analyzed by SDS-PAGE and Western blot.

 Purity:
 >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

 Sterility:
 0.22 μm filtered

 Endotoxin Level:
 Protein is endotoxin-free.

 Grade:
 Crystallography grade

Target Details

Target:	SLC7A8
Alternative Name:	SLC7A8 (SLC7A8 Products)
Background:	Sodium-independent, high-affinity transport of small and large neutral amino acids such as
	alanine, serine, threonine, cysteine, phenylalanine, tyrosine, leucine, arginine and tryptophan,
	when associated with SLC3A2/4F2hc. Acts as an amino acid exchanger. Has higher affinity for
	L-phenylalanine than LAT1 but lower affinity for glutamine and serine. L-alanine is transported
	at physiological concentrations. Plays a role in basolateral (re)absorption of neutral amino
	acids. Involved in the uptake of methylmercury (MeHg) when administered as the L-cysteine or
	D,L-homocysteine complexes, and hence plays a role in metal ion homeostasis and toxicity.
	Involved in the cellular activity of small molecular weight nitrosothiols, via the stereoselective
	transport of L-nitrosocysteine (L-CNSO) across the transmembrane. Plays an essential role in
	the reabsorption of neutral amino acids from the epithelial cells to the bloodstream in the
	kidney. {ECO:0000269 PubMed:10391915, ECO:0000269 PubMed:10574970,
	ECO:0000269 PubMed:11311135, ECO:0000269 PubMed:12117417,
	ECO:0000269 PubMed:12716892, ECO:0000269 PubMed:15081149,
	ECO:0000269 PubMed:15769744, ECO:0000269 PubMed:15918515}.
Molecular Weight:	59.6 kDa Including tag.
UniProt:	Q9UHI5
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
	as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee
	though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be
	insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to
	increase solubility. We will discuss all possible options with you in detail to assure that you
	receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.

Handling

Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

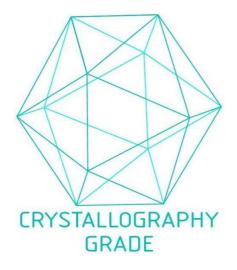


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process