

Recombinant Human SLC7A11 Protein, His-tagged

Cat. No. SLC7A11-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SLC7A11 Protein with a N-terminal 10xHis tag was expressed in E.coli.
Species	Human
Source	E.coli
Description	This gene encodes a member of a heteromeric, sodium-independent, anionic amino acid transport system that is highly specific for cysteine and glutamate. In this system, designated Xc(-), the anionic form of cysteine is transported in exchange for glutamate. This protein has been identified as the predominant mediator of Kaposi sarcoma-associated herpesvirus fusion and entry permissiveness into cells. Also, increased expression of this gene in primary gliomas (compared to normal brain tissue) was associated with increased glutamate secretion via the XCT channels, resulting in neuronal cell death.
Form	Lyophilized
Molecular Mass	~ 58.2 kDa
AA Sequence	MVRKPVVSTISKGGYLQGNVNGRLPSLGNKEPPGQEKVQLKRKVTLLRGVSIIGTII GAGIFISPKGVLQNTGSGVMSLTIWTVCGVLSLFGALS Y AELGTTIKKSGGHYTYILEV FGPLPAFVRVWVELLIIRPAATAVISLAFGRYILEPFFIQCEIPELAIKLITAVGITVVMVL NSMSVSW SARIQIFLT FCKLTAILIIIPGVMQLIKGQTQNFKDAFSGRDSSITRLPLAF YYGMYAYAGW FYLNFVTEEEVENPEKTIPLAICISMAIVTIGYVLTNVAYFTTINAEELL

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SNAVAVTFSERLLGNFSLAVPIFVALSCFGSMNGGVFAVSRLFYVASREGHLPEILS
 MIHVRKHTPLPAVIVLHPLTMIMLFSGDLDSLLNFLSFARWLFGLAVAGLIYLRKCP
 DMHRPFKVPLFIPALFSFTCLFMVALSLYSDPFSTGIGFVITLTGVPAYYLFIIWDDKPR
 WFRIMSEKITRTLQIILEVPEEDKL

Purity ≥90%, by SDS-PAGE

Stability -20 to -80 centigrade, six months from the date of receipt

Storage Store at -20 centigrade, for extended storage, conserve at -20 centigrade or -80 centigrade. Avoid freeze/thaw cycles.

Storage Buffer 20 mM Tris-HCl, 0.15M NaCl, 0.05% Brij78, 6% Trehalose, pH 8.0.

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 centigrade/-80 centigrade. Our default final concentration of glycerol is 50%. Customers could use it as reference.

GENE INFORMATION

Gene Name SLC7A11 solute carrier family 7 member 11 [Homo sapiens (human)]

Official Symbol SLC7A11

Synonyms SLC7A11; solute carrier family 7 member 11; xCT; CCBR1; cystine/glutamate transporter; amino acid transport system xc-; calcium channel blocker resistance protein CCBR1; solute carrier family 7 (anionic amino acid transporter light chain, xc-system), member 11; solute carrier family 7, (cationic amino acid transporter, y+ system) member 11

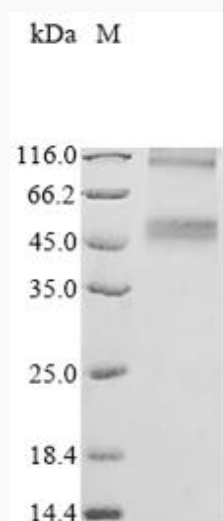
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Gene ID	23657
mRNA Refseq	NM_014331
Protein Refseq	NP_055146
MIM	607933
UniProt ID	Q9UPY5

SDS-PAGE



SDS-PAGE analysis of Human SLC7A11

Observed band size:

Monomer: 58 kDa

Dimer: 116 kDa

It is speculated that the protein forms a dimeric structure