PRODUCT INFORMATION

Tag	C-Flag&Strep Tag
Target	SLC7A11
Synonyms	CCBR1; xCT
Description	Human SLC7A11-Strep full length protein-synthetic nanodisc
Delivery	6~8weeks
Uniprot ID	Q9UPY5
Expression Host	HEK293
Protein Families	Druggable Genome, Transmembrane
Protein Pathways	N/A
Molecular Weight	The human full length SLC7A11-Strep protein has a MW of 55.4 kDa
Formulation & Reconstitution	Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions. Do not use solvents with a pH below 6.5 or those containing high concentrations of divalent metal ions (greater than 5 mM) in subsequent experiments.
Storage & Shipping	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Background	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. [provided by RefSeq, Sep 2011]
Usage	Research use only
Conjugate	Unconjugated

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