

HUMAN SLC7A11 PROTEIN, HFC TAG

Cat.#: 11372

Product Name: Human SLC7A11 Protein

Size: 10 µg, 50 µg and 100 µg

Synonyms: CCBRI;xCT

Target: SLC7A11

UNIPROT ID: Q9UPY5

Description: Recombinant Human SLC7A11 Protein with C-terminal human Fc tag

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]

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 33.4 kDa after removal of the signal peptide. The apparent molecular mass of SLC7A11-hFc is approximately 35-55 kDa due to glycosylation.

Molecular Characterization: SLC7A11(Lys67-Gly74) (Leu151-Cys158) (Lys215-Thr233) hFc(Glu99-Ala330)

Purity: The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

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.

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.

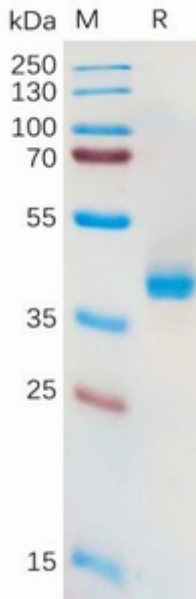


Figure 1. Human SLC7A11 Protein, hFc Tag on SDS-PAGE under reducing condition.