

SLC38A1 Protein, Human (Sf9, His, MBP, FLAG)

| | |
|-------------------|---|
| Cat. No.: | HY-P702036 |
| Synonyms: | SLC38A1; Sodium-coupled neutral amino acid transporter 1; Amino acid transporter A1; N-system amino acid transporter 2; Solute carrier family 38 member 1; System A amino acid transporter 1; System N amino acid transporter 1 |
| Species: | Human |
| Source: | Sf9 insect cells |
| Accession: | Q9H2H9 (M2-H487) |
| Gene ID: | 81539 |
| Molecular Weight: | |

PROPERTIES

| | |
|---------------------|--|
| Appearance | Solution. |
| Endotoxin Level | <1 EU/μg, determined by LAL method. |
| Reconstitution | Please use rapid thawing with running water to thaw the protein. |
| Storage & Stability | Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles. |
| Shipping | Shipping with dry ice. |

DESCRIPTION

| | |
|------------|--|
| Background | The SLC38A1 protein functions as a symporter, facilitating the cotransport of short-chain neutral amino acids and sodium ions across the cell membrane from the extracellular to the intracellular side. This electrogenic process is pH-dependent and driven by the electrochemical gradient of Na(+). Notably, SLC38A1 plays a crucial role in mediating the transport of astroglia-derived glutamine into GABAergic interneurons, contributing to the de novo synthesis of the neurotransmitter GABA. Additionally, it is implicated in amino acid transport in placental trophoblasts. The regulatory influence of SLC38A1 extends to synaptic plasticity, highlighting its involvement in fundamental cellular processes with implications for neurotransmitter synthesis and amino acid transport. |
|------------|--|

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA