

Recombinant Human SLC29A1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. SLC29A1-3953H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	SLC29A1 MS Standard C13 and N15-labeled recombinant protein (NP_001071645) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene is a member of the equilibrative nucleoside transporter family. The gene encodes a transmembrane glycoprotein that localizes to the plasma and mitochondrial membranes and mediates the cellular uptake of nucleosides from the surrounding medium. The protein is categorized as an equilibrative (as opposed to concentrative) transporter that is sensitive to inhibition by nitrobenzylthioinosine (NBMPR). Nucleoside transporters are required for nucleotide synthesis in cells that lack de novo nucleoside synthesis pathways, and are also necessary for the uptake of cytotoxic nucleosides used for cancer and viral chemotherapies. Multiple alternatively spliced variants, encoding the same protein, have been found for this gene.
Molecular Mass	50 kDa
AA Sequence	MTTSHQPQDRYKAVWLIFFMLGLGTLLPWNFFMTATQYFTNRLDMSQNVSLVTAEL SKDAQASAAPAPLPERNLSAIFNNVMTLCAMLPLLLFTYLNLSFLHQRIPQSVRILG SLVAILLVFLITAILVKVQLDALPFFVITMIKIVLINSFGAILQGSLFGLAGLLPASYPAPIM

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

SGQGLAGFFASVAMICAIASGSELSESAFGYFITACAVIILTIICYLGLPRLEFYRYYQQ
 LKLEGPGEQETKLDLISKGEEPRAKKEESGVSVSNSQPTNESHKAILKNISVLAFS
 VCFITITIGMFPAVTVEVKSSIAGSSTWERYFIPVSCFLTNIIFDWLGRSLTAVFMWP
 GKDSRWLPSVLARLVFVPLLLLCNIKPRRYLTVVFEHDAWFIFFMAAFASNGYLAS
 LCMCFGPKKVKPAEAETAGAIMAFFLCLGLALGAVFSFLFRAIVTRTRPLEQKLISEE
 DLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name SLC29A1 solute carrier family 29 member 1 (Augustine blood group) [Homo sapiens (human)]

Official Symbol SLC29A1

Synonyms SLC29A1; solute carrier family 29 (nucleoside transporters), member 1; ENT1; equilibrative nucleoside transporter 1; nucleoside transporter, es-type; solute carrier family 29 member 1; solute carrier family 29, member 1; equilibrative NBMPR-sensitive nucleoside transporter; equilibrative nitrobenzylmercaptopurine riboside-sensitive nucleoside transporter; equilibrative nitrobenzylmercaptopurine riboside (NBMPR)-sensitive nucleoside transporter; MGC1465; MGC3778;

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Gene ID	2030
mRNA Refseq	NM_001078177
Protein Refseq	NP_001071645
MIM	602193
UniProt ID	Q99808
SDS-PAGE	