

## SLC29A1 Protein, Human (Sf9, His, MBP, FLAG)

Cat. No.:	HY-P702029
Synonyms:	SLC29A1; Equilibrative nucleoside transporter 1; Equilibrative nitrobenzylmercaptapurine riboside-sensitive nucleoside transporter; Equilibrative NBMPR-sensitive nucleoside transporter; Nucleoside transporter; es-type; Solute carrier family 29 member 1
Species:	Human
Source:	Sf9 insect cells
Accession:	Q99808 (T2-V456)
Gene ID:	2030
Molecular Weight:	

### PROPERTIES

Appearance	Solution.
Endotoxin Level	<1 EU/ $\mu$ g, 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	SLC29A1, a pivotal uniporter, intricately contributes to the facilitative transport of nucleosides and nucleobases, playing a crucial role in maintaining cellular homeostasis for these essential compounds. Functioning as a Na(+)-independent transporter, SLC29A1 is actively involved in transporting a spectrum of nucleosides, including adenosine, guanosine, inosine, uridine, thymidine, and cytidine. Moreover, it efficiently transports both purine nucleobases (hypoxanthine, adenine, guanine) and pyrimidine nucleobases (thymine, uracil). This versatile transporter is instrumental in mediating basolateral nucleoside uptake into Sertoli cells, thereby regulating nucleoside transport in the testis across the blood-testis barrier. Notably, SLC29A1 assumes a pivotal role in the regulation of inosine levels in brown adipocytes tissues (BAT), thereby influencing BAT-dependent energy expenditure. The broad substrate specificity and tissue-specific functions highlight the significance of SLC29A1 in cellular nucleoside transport and metabolic processes.
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**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](mailto:tech@MedChemExpress.com)

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