CD39L1/ENTPD2 Protein, Human (sf9, His)

Cat. No.:	HY-P76903
Synonyms:	Ectonucleoside triphosphate diphosphohydrolase 2; Entpd2; Cd39l1
Species:	Human
Source:	Sf9 insect cells
Accession:	Q9Y5L3 (T29-D460)
Gene ID:	954
Molecular Weight:	Approximately 59 kDa

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filtered solution of 20 mM Tris, 500 mM NaCl, pH 7.4
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A.
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	CD39L1/ENTPD2 protein, predominantly expressed in the nervous system, plays a pivotal role in the regulation of purinergic neurotransmission by efficiently hydrolyzing ATP and various nucleotides. Notably, CD39L1/ENTPD2 exhibits only marginal hydrolysis of ADP, indicating a substrate specificity that distinguishes it from broader nucleotide hydrolysis. The order of enzymatic activity with different substrates reveals a preference hierarchy, with ATP being hydrolyzed most effectively, followed by GTP, CTP, ITP, and UTP, whereas ADP and UDP show considerably lower hydrolytic efficiency. This nuanced substrate specificity underscores the intricate regulatory role of CD39L1/ENTPD2 in modulating purinergic signaling pathways within the nervous system, emphasizing its contribution to the finely tuned control of neurotransmission through selective nucleotide hydrolysis.

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