ENTPD3 Protein, Human (sf9, His)

Cat. No.:	HY-P76904
Synonyms:	Ectonucleoside triphosphate diphosphohydrolase 3; NTPDase 3; Ecto-apyrase 3; CD39L3
Species:	Human
Source:	Sf9 insect cells
Accession:	O75355 (Q44-P485)
Gene ID:	956
Molecular Weight:	Approximately 50 kDa

PROPERTIES

Biological Activity	Measured by its ability to hydrolyze the 5'-phosphate group from the substrate adenosine-5'-triphosphate (ATP) and the specific activity is >70,000 pmol/min/μg.
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filtered solution of 20 mM Tris, 500 mM NaCl, pH 7.4, 10% gly
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	The ENTPD3 protein, demonstrates a notable threefold preference for the hydrolysis of ATP (adenosine triphosphate) over ADP (adenosine diphosphate). This enzymatic specificity implies a particular affinity for cleaving the high-energy phosphate bonds in ATP, highlighting its role in the hydrolysis of this essential nucleotide triphosphate. The preference for ATP hydrolysis suggests that ENTPD3 may play a significant role in regulating cellular energy dynamics, potentially participating in cellular processes that require ATP as an energy source. Further investigations may provide insights into the specific cellular pathways and functions associated with ENTPD3's enzymatic activity and its impact on cellular bioenergetics.

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