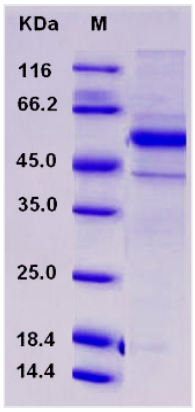
NTPDase 2 / ENTPD2 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	NTPDase 2 / ENTPD2, Recombinant Protein
Full Product Name	Recombinant Human NTPDase 2 / ENTPD2 Protein (aa 29-460, His tag)
Product Gene Name	NTPDase 2 / ENTPD2 recombinant protein
Product Synonym Names	ENTPD2, CD39L1
Host	Baculovirus-Insect Cells
Form/Format	Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 7.4
Purity/Purification	> 85 % as determined by SDS-PAGE
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -70 degree C
Molecular Weight	48,535 Da
OMIM	U91510 mRNA
3D Structure	ModBase 3D Structure for Q9Y5L3
Predicted N Terminal	His
Endotoxin	< 1.0 EU per mug of the protein as determined by the LAL method
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Application Notes for NTPDase 2 / ENTPD2 recombinant protein	The recombinant human human ENTPD2 consists of 448 amino acids and predicts a molecular mass of 49.3 KDa. It migrates as an approximately 59 KDa band in SDS-PAGE under reducing conditions.
Related Product Information for NTPDase 2 / ENTPD2 recombinant protein	Background: NTPDase 2, also known as ENTPD2, belongs to the ecto-nucleoside triphosphate diphosphohydrolase family (E-NTPDase). Members of E-NTPDase family are nucleotidases able to hydrolyze 5-nucleoside tri- and/or diphosphates; the main role of these enzymes is the termination of purinergic signaling. NTPDases are ubiquitous and were previously shown in other parasites including the trypanosomatides of genus Leishmania and in T. brucei. NTPase activity would act as a timer and is crucial to T. gondii infection. In L. pneumophila it was demonstrated that an E-NTPDase, similar to CD39, is essential for intracellular bacterial multiplication. NTPDase 2 is an integral membrane protein. In the nervous system, it could hydrolyze ATP and other nucleotides to regulate purinergic neurotransmission. Alternative splicing of NTPDase 2 gene results in multiple transcript variants. Description: A DNA sequence encoding the mature form of human ENTPD2 (Q9Y5L3) (Thr29-Asp460) was expressed, with a polyhistidine tag at the N-terminus.
Other Notes	Small volumes of NTPDase 2 / ENTPD2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NTPDase 2 / ENTPD2 purchase	MBS2545684 is a recombinant protein targeting NTPDase 2 / ENTPD2. Also known as Recombinant Human NTPDase 2 / ENTPD2 Protein (aa 29-460, His tag). Host: Baculovirus-Insect Cells.



SDS-PAGE of NTPDase 2 / ENTPD2 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NTPDase 2 / ENTPD2. It may not necessarily be applicable to this product.

NCBI GI #	4557421
NCBI GeneID	954
NCBI Accession #	NP_001237.1
UniProt Primary Accession #	Q9Y5L3
UniProt Secondary Accession #	O15464; Q5SPY6; Q5SPY7
UniProt Related Accession #	Q9Y5L3
GenBank Nucleotide #	NM_001246.3
NCBI Official Full Name	ectonucleoside triphosphate diphosphohydrolase 2 isoform 2
NCBI Official Synonym Full Names	ectonucleoside triphosphate diphosphohydrolase 2
NCBI Official Symbol	ENTPD2
NCBI Official Synonym Symbols	CD39L1; NTPDase-2
UniProt Protein Name	Ectonucleoside triphosphate diphosphohydrolase 2
UniProt Synonym Protein Names	CD39 antigen-like 1; Ecto-ATP diphosphohydrolase 2; Ecto-ATPDase 2; Ecto-ATPase 2
UniProt Gene Name	ENTPD2
UniProt Synonym Gene Names	CD39L1; NTPDase 2; Ecto-ATPDase 2; Ecto-ATPase 2
NCBI Protein Information	ectonucleoside triphosphate diphosphohydrolase 2
NCBI Summary for NTPDase 2 / ENTPD2	The protein encoded by this gene is the type 2 enzyme of the ecto-nucleoside triphosphate diphosphohydrolase family (E-NTPDase). E-NTPDases are a family of ecto-nucleosidases that hydrolyze 5'-triphosphates. This ecto-ATPase is an integral membrane protein. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jul 2008]
UniProt Comments for NTPDase 2 / ENTPD2	ENTPD2: In the nervous system, could hydrolyze ATP and other nucleotides to regulate purinergic neurotransmission. Hydrolyzes ADP only to a marginal extent. The order of activity with different substrates is ATP > GTP > CTP = ITP > UTP >> ADP = UDP. Belongs to the GDA1/CD39 NTPase family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.6.1.-; Extracellular matrix; Hydrolase; Membrane protein, integral; Membrane protein, multi-pass; Nucleotide Metabolism - purine Chromosomal Location of Human Ortholog: 9q34.3

Research Articles on NTPDase 2 / ENTPD2	**1.** The role of cysteine 26 in the catalytic activity of NTPDase-2 and as the target of p-chloromercuriphenylsulfonate (pCMPS), a sulfhydryl reagent and NTPDase-2 inhibitor, is reported.
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