

Datasheet for ABIN7195468

ENTPD2 Protein (AA 29-460) (His tag)[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	ENTPD2
Protein Characteristics:	AA 29-460
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This ENTPD2 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human NTPDase 2/ENTPD2 Protein (aa 29-460, His Tag)(Active)
Sequence:	Thr 29-Asp460
Characteristics:	A DNA sequence encoding the mature form of human ENTPD2 (Q9Y5L3) (Thr29-Asp460) was expressed, with a polyhistidine tag at the N-terminus.
Purity:	> 85 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to hydrolyze the 5'phosphate groups from the substrate adenosine 5'triphosphate(ATP).The specific activity is > 5,000 pmoles/min/µg.

Target Details

Target:	ENTPD2
Alternative Name:	NTPDase 2/ENTPD2 (ENTPD2 Products)
Background:	<p>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 <i>Leishmania</i> and in <i>T. brucei</i>. NTPase activity would act as a timer and is crucial to <i>T. gondii</i> infection. In <i>L. pneumophila</i> 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.</p> <p>Synonym: CD39L1;NTPDase-2;RP11-229P13.11-001</p>
Molecular Weight:	49.3 kDa
UniProt:	Q9Y5L3

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 20 mM Tris, 500 mM NaCl, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	<p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.</p> <p>Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>