

Recombinant Human NTPDase 2/ENTPD2 Protein (aa 29-460, His Tag)

Catalog Number: PKSH031019

Note: Centrifuge before opening to ensure complete recovery of vial contents.

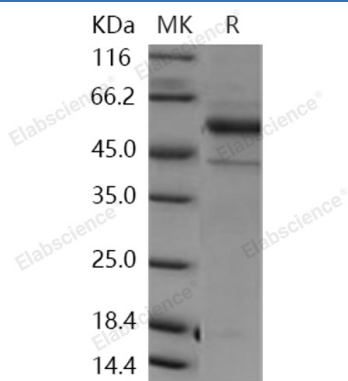
Description

Species	Human
Source	Baculovirus-Insect Cells-derived Human NTPDase 2/ENTPD2 protein Thr 29-Asp460, with an N-terminal His
Calculated MW	49.3 kDa
Observed MW	59 kDa
Accession	Q9Y5L3
Bio-activity	Not validated for activity

Properties

Purity	> 85 % as determined by reducing SDS-PAGE.
Concentration	Subject to label value.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. 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.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 7.4 Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.

Data



> 85 % as determined by reducing SDS-PAGE.

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 trypanosomatids 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.

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