

CD39 Protein, Rat, Recombinant (E. coli, His)

General Information

Synonyms:	ATP diphosphohydrolase (ATP-DPH;ATPDase);Entpd1;Cd39;Nucleoside triphosphate diphosphohydrolase 1 (NTPDase1);Ecto-ATP diphosphohydrolase 1 (Ecto-ATPDase 1;Ecto-ATPase 1);Ecto-apyrase;Ectonucleoside triphosphate diphosphohydrolase 1;Lymphoid cell activation antigen
Protein Construction:	38-479 aa
Species:	Rat
Expression Host:	E. coli
Accession:	P97687
Molecular Weight:	50.6 kDa (predicted)
AA Sequence:	THNKPLPENVKYGIVLDAGSSHTNLYIKWPAEKENDTGVVQLLEECQVKGPGISKYAQKTDEIAAYLAECMK MSTERIPASKQHQPVYLGATAGMRLLRMESKQSADEVLAAVSRSLKSYPFDFQGAKIITGQEEGAYGWITIN YLLGRFTQEQSWLNFISDSQKQATFGALDLGGSSTQVTFVPLNQTLEAPETSLQFRLYGTDYTVYTHSFLCYGK DQALWQKLAQDIQVSSGILKDPFCYFPGYKVVNVSELYGTPCTKRFEKKLPFNQFQVQGTGDYEQCHQSIL KFFNNSHCPSQCAFNGVFLPPLQGSFGAFSAFYFVMDFFKKMANDSVSSQEKMTETKNFCSKPWEEVKAS YPTVKEKYLSEYCFSGTYILSLLLQGYNFTGTSWDQIHFMGKIKDSNAGWTLGYMLNLTNMIPAEQPLSPPLP HSTYI

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

In the nervous system, could hydrolyze ATP and other nucleotides to regulate purinergic neurotransmission. Could also be implicated in the prevention of platelet aggregation by hydrolyzing platelet-activating ADP to AMP. Hydrolyzes ATP and ADP equally well.

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