

ENTPD3 Protein, Human, Recombinant (His)

General Information

Synonyms:	ectonucleoside triphosphate diphosphohydrolase 3;HB6;NTPDase-3;CD39L3
Protein Construction:	A DNA sequence encoding the human ENTPD3 (O75355) extracellular domain (Gln 44-Pro 485) was fused with a polyhistidine tag at the C-terminus and a signal peptide at the N-terminus. Predicted N terminal: Gln 44
Species:	Human
Expression Host:	Baculovirus Insect Cells
Accession:	O75355
Molecular Weight:	51 kDa (predicted); 50 kDa (reducing conditions)

QC Testing

Biological Activity:	Measured by its ability to hydrolyze the 5'-phosphate group from the substrate adenosine-5'-triphosphate (ATP). The orthophosphate product is measured by a Malachite Green Phosphate Detection Kit . The specific activity is >70,000 pmol/min/μg.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Supplied as sterile 20 mM Tris, 500 mM NaCl, pH 7.4, 10% gly.

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:

It is recommended to store the product under sterile conditions at -20°C to -80°C. Samples are stable for up to 12 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Reference

- Fausther M, et al. (2010) Cystic fibrosis remodels the regulation of purinergic signaling by NTPDase1 (CD39) and NTPDase3. *Am J Physiol Lung Cell Mol Physiol.* 298(6): 804-18.
- Vlajkovic SM, et al. (2006) Noise-induced up-regulation of NTPDase3 expression in the rat cochlea: Implications for auditory transmission and cochlear protection. *Brain Res.* 1104(1): 55-63.
- Ivanenkov w, et al. (2005) Characterization of disulfide bonds in human nucleoside triphosphate diphosphohydrolase 3 (NTPDase3): implications for NTPDase structural modeling. *Biochemistry.* 44 (25): 8998-9012.

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