

Human ENTPD3 / NTPDase3 / CD39L3 Protein (His Tag)

Catalog Number: 10909-H08B



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

CD39L3; HB6; NTPDase-3

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.

Source: Human

Expression Host: Baculovirus-Insect Cells

QC Testing

Purity: > 90 % as determined by SDS-PAGE

Bio 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 (Catalog # DY996). The specific activity is >70,000 pmol/min/μg.

Endotoxin:

< 1.0 EU per μg of the protein as determined by the LAL method

Predicted N terminal: Gln 44

Molecular Mass:

The recombinant human ENTPD3 (aa44-485) consists of 452 amino acids and predicts a molecular mass of 51 kDa. It migrates as an approximately 50 kDa band in SDS-PAGE under reducing conditions.

Formulation:

Supplied as sterile 20mM Tris, 500mM NaCl, pH 7.4, 10% gly

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Stability & Storage:

Samples are stable for twelve months from date of receipt at -20°C to -80°C.

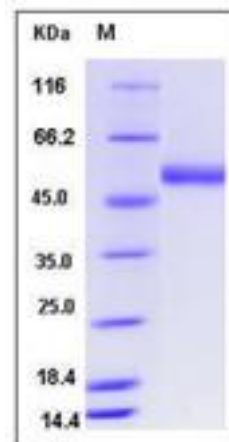
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



References

1. 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.
2. Vljakovic 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.
3. 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.