

Mouse ENPP-1 Protein

Cat. No. ENP-MM102

Description

Source	Recombinant Mouse ENPP-1 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Lys80-Asp906.
Accession	P06802-1
Molecular Weight	The protein has a predicted MW of 95.99 kDa. Due to glycosylation, the protein migrates to 100-110 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE

Formulation and Storage

Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Ectonucleotide pyrophosphatase/phosphodiesterase (ENPP)-1 is a membrane-bound protein that catalyzes the hydrolysis of extracellular nucleoside triphosphates to monophosphate and extracellular inorganic pyrophosphate (ePPi). Mechanical stimulation regulates ENPP-1 expression.

Assay Data

Tris-Bis PAGE



Mouse ENPP-1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

Bioactivity Data

Measured by its ability to hydrolyze thymidine 5'-monophosphate p-nitrophenyl ester. The specific activity is > 100000 pmol/min/ μg , as measured under the described conditions.