

ENPP3 Protein, Human, Recombinant (aa 558-875, His)

General Information

Synonyms:	PD-Ibeta;B10;E-NPP 3;PDNP3;NPP3;ENPP3;gp130RB13-6;NPPase;PD-Iβ;CD203c
Protein Construction:	Lys558-Ile875
Species:	Human
Expression Host:	HEK293 Cells
Accession:	O14638
Molecular Weight:	39.06 kDa (predicted). Due to glycosylation, the protein migrates to 55-65 kDa based on Tris-Bis PAGE result.

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:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1 EU/μg by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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.

Shipping:

In general, Lyophilized powders are shipping with blue ice.

Protein Background

Ectonucleotide pyrophosphatase-phosphodiesterase 3 (ENPP3), a protein detected in the human uterus, has been found to play an important role in the development and invasion of tumours. It was recently discovered that ENPP3 was upregulated during the window of implantation in the human endometrium but its functional relevance remains elusive.

Reference

Chen Q, et al. Expression of ENPP3 in human cyclic endometrium: a novel molecule involved in embryo implantation. Reprod Fertil Dev. 2018 Oct;30(10):1277-1285. doi: 10.1071/RD17257. PMID: 29614240.

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