

## ENPP-3 Protein, Human (318a.a, HEK293, His)

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| Cat. No.:         | HY-P77928   |
| Synonyms:         | E-NPP 3; NPP3; PD-Ibeta; NPPase; ENPP3; PDNP3; CD203c; B10; gp130RB13-6 |
| Species:          | Human   |
| Source:           | HEK293  |
| Accession:        | O14638 (K558-I875)  |
| Gene ID:          | 5169  |
| Molecular Weight: | 55-65 kDa   |

### PROPERTIES

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|---------------------|--|
| Biological Activity | The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.   |
| Appearance          | Lyophilized powder.  |
| Formulation         | Lyophilized from a 0.22 $\mu$ m filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.  |
| Endotoxin Level     | <1 EU/ $\mu$ g, determined by LAL method.  |
| Reconstitution      | It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O.   |
| Storage & Stability | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage. |
| Shipping            | Room temperature in continental US; may vary elsewhere.  |

### DESCRIPTION

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| Background | ENPP3, a hydrolase, plays a pivotal role in metabolizing extracellular nucleotides, encompassing ATP, GTP, UTP, and CTP. This enzymatic activity is instrumental in modulating immune responses, particularly in the regulation of mast cell and basophil reactions during inflammation and chronic allergic phases. ENPP3 achieves this by eliminating extracellular ATP, a signaling molecule that activates basophils and mast cells, subsequently triggering the release of inflammatory cytokines. Furthermore, within the small intestine's lumen, ENPP3 metabolizes extracellular ATP, effectively preventing ATP-induced apoptosis in intestinal plasmacytoid dendritic cells. Alongside its involvement in nucleotide metabolism, ENPP3 exhibits alkaline phosphodiesterase activity, adding to its diverse functions in cellular processes. |
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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA