

# Canine ENPP-3 Protein, Ultra Low Endotoxin

Cat. No. ENP-DM103-UL

## Description

|                         |   |
|-------------------------|---|
| <b>Source</b>           | Recombinant Canine ENPP-3 Protein is expressed from HEK293 with His tag at the N-Terminus.<br>It contains Arg46-Ile874.               |
| <b>Accession</b>        | A0A8I3N0F5  |
| <b>Molecular Weight</b> | The protein has a predicted MW of 96.19 kDa. Due to glycosylation, the protein migrates to 110-130 kDa based on Bis-Tris PAGE result. |
| <b>Endotoxin</b>        | Less than 0.01 EU per µg by the LAL method.   |
| <b>Purity</b>           | > 95% as determined by Bis-Tris PAGE<br>> 95% as determined by HPLC   |

## Formulation and Storage

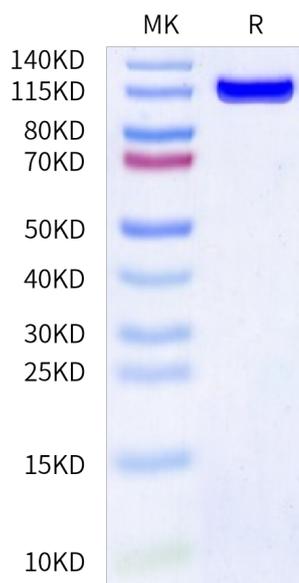
|                    |  |
|--------------------|--|
| <b>Formulation</b> | Supplied as 0.22µm filtered solution in 50mM Tris, 150mM NaCl (pH 7.5).  |
| <b>Storage</b>     | Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

## 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.

## Assay Data

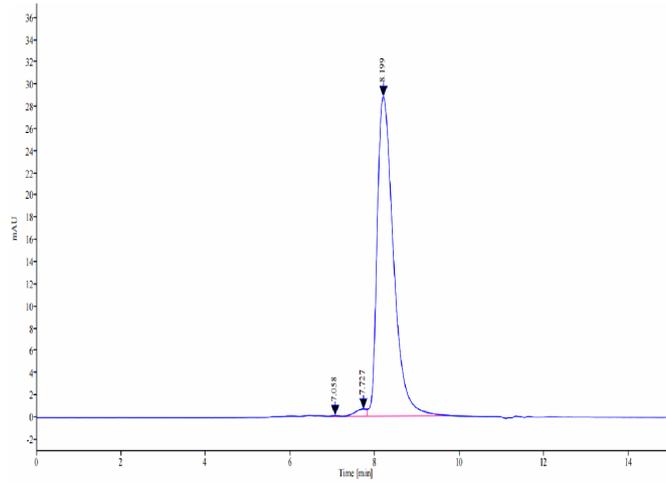
### Bis-Tris PAGE



Canine ENPP-3 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data



The purity of Canine ENPP-3 is greater than 95% as determined by SEC-HPLC.

Bioactivity Data

Measured by its ability to hydrolyze thymidine 5'-monophosphate p-nitrophenyl ester. The specific activity is > 8000 pmol/min/μg.