

## DPEP1 Protein, Human (HEK293, His)

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| <b>Cat. No.:</b>         | HY-P70003  |
| <b>Synonyms:</b>         | rHuDipeptidase 1/DPEP1, His; Dipeptidase 1; Dehydropeptidase-I; Microsomal Dipeptidase; Renal Dipeptidase; hRDP; DPEP1; MDP; RDP |
| <b>Species:</b>          | Human  |
| <b>Source:</b>           | HEK293   |
| <b>Accession:</b>        | P16444 (D17-S385)  |
| <b>Gene ID:</b>          | 1800   |
| <b>Molecular Weight:</b> | Approximately 41.0 kDa   |

### PROPERTIES

|                                |  |
|--------------------------------|--|
| <b>AA Sequence</b>             | <pre> D F F R D E A E R I   M R D S P V I D G H   N D L P W Q L L D M   F N N R L Q D E R A N L T T L A G T H T   N I P K L R A G F V   G G Q F W S V Y T P   C D T Q N K D A V R R T L E Q M D V V H   R M C R M Y P E T F   L Y V T S S A G I R   Q A F R E G K V A S L I G V E G G H S I   D S S L G V L R A L   Y Q L G M R Y L T L   T H S C N T P W A D N W L V D T G D S E   P Q S Q G L S P F G   Q R V V K E L N R L   G V L I D L A H V S V A T M K A T L Q L   S R A P V I F S H S   S A Y S V C A S R R   N V P D D V L R L V K Q T D S L V M V N   F Y N N Y I S C T N   K A N L S Q V A D H   L D H I K E V A G A R A V G F G G D F D   G V P R V P E G L E   D V S K Y P D L I A   E L L R R N W T E A E V K G A L A D N L   L R V F E A V E Q A   S N L T Q A P E E E   P I P L D Q L G G S C R T H Y G Y S S </pre> |
| <b>Appearance</b>              | Solution.  |
| <b>Formulation</b>             | Supplied as a 0.2 µm filtered solution of PBS, 10% Glycerol, pH 7.4.   |
| <b>Endotoxin Level</b>         | <1 EU/µg, determined by LAL method.  |
| <b>Reconstitution</b>          | N/A  |
| <b>Storage &amp; Stability</b> | Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.   |
| <b>Shipping</b>                | Shipping with dry ice.   |

### DESCRIPTION

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| <b>Background</b> | Dipeptidase 1 (DPEP1) exhibits versatile enzymatic functions, hydrolyzing a broad spectrum of dipeptides, including the conversion of leukotriene D4 to leukotriene E4. Additionally, it plays a role in the degradation of cystinyl-bis-glycine formed during glutathione breakdown. Notably, DPEP1 showcases beta lactamase activity, enabling the hydrolysis of the beta- |
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lactam antibiotic imipenem. Beyond its enzymatic functions, DPEP1 acts as an adhesion receptor, facilitating neutrophil recruitment from the bloodstream into inflamed lungs and liver independently of its dipeptidase activity.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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