

## DPEP2 Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P76306
<b>Synonyms:</b>	Dipeptidase 2; DPEP2; Membrane-bound dipeptidase 2; MBD-2
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	Q9H4A9 (A33-S376)
<b>Gene ID:</b>	64174
<b>Molecular Weight:</b>	Approximately 42-60 kDa due to the glycosylation.

### PROPERTIES

<b>AA Sequence</b>	<pre> A Y T T P G P P R A   Q F W S A Y V P C Q   T Q D R D A L R L T   L E Q I D L I R R M C A S Y S E L E L V   T S A K A L N D T Q   K L A C L I G V E G   G H S L D N S L S I L R T F Y M L G V R   Y L T L T H T C N T   P W A E S S A K G V   H S F Y N N I S G L T D F G E K V V A E   M N R L G M M V D L   S H V S D A V A R R   A L E V S Q A P V I F S H S A A R G V C   N S A R N V P D D I   L Q L L K K N G G V   V M V S L S M G V I Q C N P S A N V S T   V A D H F D H I K A   V I G S K F I G I G   G D Y D G A G K F P Q G L E D V S T Y P   V L I E E L L S R G   W S E E E L Q G V L   R G N L L R V F R Q V E K V Q E E N K W   Q S P L E D K F P D   E Q L S S S C H S D   L S R L R Q R Q S L T S G Q E L T E I P   I H W T A K L P A K   W S V S           </pre>
<b>Biological Activity</b>	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	DPEP2 (Dipeptidase 2) is a versatile protein with dipeptidase activity, exhibiting the ability to hydrolyze leukotriene D4
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(LTD4) into leukotriene E4 (LTE4), as well as cleave cystinyl-bis-glycine. Beyond its enzymatic functions, DPEP2 possesses an independent role in modulating macrophage inflammatory responses by acting as a regulator of the NF-kappaB inflammatory signaling pathway. This dual functionality suggests that DPEP2 plays a multifaceted role in cellular processes, participating both in the metabolism of bioactive lipids and in the regulation of key inflammatory pathways, showcasing its importance in immune and inflammatory responses.

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

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