

## DPEP2 Protein, Human (HEK293, His)

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

### PROPERTIES

AA Sequence	<p>             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           </p>
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 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	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).
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

Background	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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