

## Recombinant Human DPEP1, His-tagged

Cat. No. DPEP1-77H    Lot. No. (See product label)

### SPECIFICATION

**Product Overview**      Recombinant Human Dipeptidase 1/DPEP1 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Asp17-Ser385) of Human DPEP1 fused with a 6His tag at the C-terminus.

**Species**                      Human

**Source**                        HEK293

**ProteinLength**              17-385 a.a.

**Description**                Dipeptidase 1 (DPEP1) is a kidney membrane enzyme that belongs to the peptidase M19 family. DPEP1 is a homodimer and is inhibited by L-penicillamine. DPEP1 hydrolyzes a variety of dipeptides and is implicated in renal metabolism of glutathione and its conjugates. DPEP1 is responsible for hydrolysis of the beta-lactam ring of antibiotics, such as penem and carbapenem. DPEP1 may play an important role in the regulation of leukotriene activity. DPEP1 expression in cancer is significantly higher than that in normal tissue. However, DPEP1 expression decreased with pathological differentiation, lymph-node and distant metastasis.

**AA Sequence**                DFFRDEAERIMRDSPVIDGHNDLPWQLLDMFNNRLQDERANLTTLAGHTNIPKLRA  
 GFVGGQFW SVYTPCDTQNKDAVRRRTLEQMDVVHRMCRMYPETFLYVTSSAGIRQ  
 AFREGKVASLIGVEGGHSI DSSLGVLRALYQLGMRYLTLTHSCNTPWADNWLVDTG  
 DSEPQSQGLSPFGQRVVKELNRLGVLID LAHVSVATMKATLQLSRAPVIFSHSSAYS  
 VCASRRNVPDDVLRVLVKQTDSLVMVNFYNNYISCTN KANLSQVADHLDHIKEVAGA

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RAVGFGGDFDGVPRVPEGLEDVSKYPLIAELLRRNWTEAEVKGA LADNLLRVFEA  
VEQASNLTAPEEEPIPLDQLGGSCRTHYGYSSVDHHHHHH

**Endotoxin**

Less than 0.1 ng/μg (1 IEU/μg).

**Purity**

Greater than 95% as determined by reducing SDS-PAGE.

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