

## DPP2 Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P75280
<b>Synonyms:</b>	Dipeptidyl peptidase 2; Dipeptidyl peptidase 7; DPP II; DPP7; DPP2; QPP
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	Q9UHL4 (G22-L492)
<b>Gene ID:</b>	29952
<b>Molecular Weight:</b>	Approximately 60 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>GARRAPDPGF    QERFFQQLD    HFNFERFGNK    TFPQRFLVSD</p> <p>RFWVRGEGPI    FFYTGNEGDV    WAFANNSAFV    AELAAER GAL</p> <p>LVFAEHRYYG    KSLPFGAQST    QRGHTELLTV    EQALADFAEL</p> <p>LRALRRDLGA    QDAPAI AFGG    SYGGMLSAYL    RMKYPHLVAG</p> <p>AL AASAPVLA    VAGLGDSNQF    FRDVTADFEG    QSPKCTQGVR</p> <p>EAFRQIKDLF    LQGAYD TVRW    EFGTCQPLSD    EKDLTQLFMF</p> <p>ARNAFTVLAM    MDYPYPTDFL    GPLPANPVKV    GCDRL LSEAQ</p> <p>RITGLRALAG    LVYNASGSEH    CYDIYRLYHS    CADPTGCGTG</p> <p>PDARAWDYQA    CTEINLTFAS    NNV TDMFPDL    PFTDEL RQRY</p> <p>CLDTWGVWPR    PDWLLT SFWG    GDLRAASNI I    FSNGNLDPWA</p> <p>GGGIRRNLSA    SVIAVTIQGG    AHHLDLRASH    PEDPASVVEA</p> <p>RKLEATIIGE    WVKAARREQQ    PALRGGPRLS    L</p>
<b>Biological Activity</b>	Measured by its ability to cleave the fluorogenic peptide substrate, Lys-Pro-AMC (KP-AMC). Read at excitation and emission wavelengths of 380 nm and 460 nm. The specific activity is 2025.169 pmol/min/μg, as measured under the described conditions.
<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.

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## DESCRIPTION

### Background

DPP2 protein assumes a vital role in the degradation of specific oligopeptides, contributing to the cellular processes involved in peptide turnover. As an integral member of the dipeptidyl peptidase family, DPP2 is implicated in the hydrolysis of oligopeptide bonds, facilitating the breakdown of peptides into their constituent amino acids. This enzymatic activity underscores its significance in cellular catabolism and the regulation of peptide metabolism, illustrating its crucial role in maintaining the balance of intracellular peptide concentrations. The functional involvement of DPP2 in peptide degradation highlights its importance in cellular homeostasis and the dynamic processes governing peptide turnover within biological systems.

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

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