

## Cathepsin C/DPPI Protein, Mouse (His-Myc)

<b>Cat. No.:</b>	HY-P701247
<b>Synonyms:</b>	Cathepsin C; cathepsin CEC 3.4.14.1; Cathepsin J; CPPIHMS; CTSC; dipeptidyl peptidase 1; Dipeptidyl peptidase I; Dipeptidyl transferase; dipeptidyl-peptidase I; DPP1; DPPI; DPP-I; JP; JPD; PALS; PLS
<b>Species:</b>	Mouse
<b>Source:</b>	E. coli
<b>Accession:</b>	P97821 (D25-W134)
<b>Gene ID:</b>	13032
<b>Molecular Weight:</b>	20.1 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>D T P A N C T Y P D    L L G T W V F Q V G    P R S S R S D I N C    S V M E A T E E K V</p> <p>V V H L K K L D T A    Y D E L G N S G H F    T L I Y N Q G F E I    V L N D Y K W F A F</p> <p>F K Y E V R G H T A    I S Y C H E T M T G    W V H D V L G R N W</p>
<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 0.22 µm filtered solution of 10 mM Tris-HCl, 1 mM EDTA, 6% Trehalose, pH 8.0.
<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.
<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>	<p>Cathepsin C/DPPI Protein, functioning as a thiol protease, exhibits dipeptidylpeptidase activity with efficacy against a diverse spectrum of dipeptide substrates comprising polar and hydrophobic amino acids. Notably, the P1 position cannot accommodate proline, and the P2 position cannot accommodate arginine in the substrate. This thiol protease displays versatility as both an exopeptidase and an endopeptidase. Its functional repertoire extends to the activation of serine proteases, including elastase, cathepsin G, and granzymes A and B. The broad substrate specificity and multifunctional roles of Cathepsin C/DPPI highlight its significance in the intricate network of proteolytic processes, implicating its involvement in diverse cellular functions and regulatory pathways.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA