

Carboxypeptidase A2/CPA2 Protein, Rat (HEK293, His)

Cat. No.:	HY-P75452
Synonyms:	Carboxypeptidase A2; CPA2
Species:	Rat
Source:	HEK293
Accession:	G3V976 (M1-Y417)
Gene ID:	296959
Molecular Weight:	Approximately 45 kDa

PROPERTIES

AA Sequence	<pre> MRLTLLLAAL LGYIYCQETF VGDQVLEIIP SHEEQIRTL L QLEAEEHLEL DFWKSPTIPG ETVHVRVPFA SIQAVKVFLE SQGIDYSIMI EDVQVLLDQE REEMLFNQQR ERGGNFNFEA YHTLEEIYQE MDNLVAENPG LVSKVNI GSS FENRPMNV LK FSTGGDKPAI WLDAGIHARE WVTQATALWT ANKIASDYGT DPAITSL LNT LDIFLLPVTN PDGYVFSQTT NRMWRKTRSK RSGSGCVGVD PNRNWDANFG GPGASSSPCS DSYHGPKPNS EVEVKSIVDF IKSHGKVKAF ITLHSYSQLL MFPYGYKCTK PDDFNE LDEV AQKAAQALKR LHGTSYKVG P IC SVIYQASG GSIDWAYDLG IKYSFAFELR DTGFYGFLLP AKQILPTAEE TWLGLKTIME HVRDHPY </pre>
Biological Activity	Measured by its ability to cleave the 200 μ M colorimetric peptide substrate Ac-Phe-Thiaphe-OH, in the presence of 200 μ M 5,5'-Dithio-bis (2-nitrobenzoic acid) (DTNB) that incubate at room temperature for 5 minutes. The specific activity is 4697.712 pmol/min/ μ g.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ 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

The Carboxypeptidase A2/CPA2 Protein is a pivotal member of the peptidase M14 family, signifying its essential role as a peptidase enzyme. As part of this enzyme family, CPA2 likely shares conserved structural and functional features with related proteins, implicating its involvement in the hydrolysis of peptide bonds. Its membership in the peptidase M14 family underscores its significance in cellular processes related to the cleavage of peptides and the regulation of various biological pathways. The study of CPA2 provides insights into its specific enzymatic functions within the context of the peptidase M14 family, offering potential applications in therapeutic interventions and a deeper understanding of its broader impact on cellular processes involved in peptide metabolism. Further exploration of CPA2's role promises to enhance our comprehension of its contributions to normal physiology and pathological conditions.

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

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