

Recombinant Human CPN2, His-tagged

Cat. No. CPN2-73H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Carboxypeptidase N Subunit 2/CPN2 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Cys22-Pro545) of Human CPN2 fused with a polyhistidine tag at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	22-545 a.a.
Description	Carboxypeptidase N Subunit 2 (CPN2) is a secreted protein and contains two glycosylated inactive chains and tetramer of two catalytic chains. In sequence similarities, CPN2 contains twelve LRR (leucine-rich) repeats, one LRRCT domain, and one LRRNT domain. CPN2 also indirectly inhibits gastric mill neurons and ventricular dilator neuron by its activation of LG. The 83 kDa subunit binds and stabilizes the catalytic subunit at 37 degrees Celsius and keeps it in circulation. Under some circumstances it may be an allosteric modifier of the catalytic subunit.
AA Sequence	CPMGCDCFVQEVFCSDEELATVPLDIPPYTKNIIFVETSFTTLETRAFGSNPNLTKVV FL NTQL CQFRPDAFGGLPRLEDLEVTGSSFLNLSTNIFSNLTSLGKLTNLFNMLEAL PEGLF QHLAALES LHLQGNQLQALPRRLFQPLTHLKTNLNAQNLLAQLPEELFHPLT SLQTLKLS NNALSGLPQGVF GKLGSLSLQELFDSNNISELPPQVFSQLFCLERLWLQ RNAITHLPLSIF ASLGNLTFLSLQWNML RVLPAFLFAHTPCLVGLSLTHNQLETVAE

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GTF AHL SNLRSLMLS YNAITHLPAGIFRDLEELVK LYLGSNNLTALHPALFQNL SKLE
 LLSLSKNQLTTLP EGIF DTNYNLFNLALHGNPWQCDCHLAY LFNWLQQYTDRLLNI
 QTYCAGPAYLKGQVVPALNEK QLVCPVTRDHLGFQVTWPDESKAGGSWD LAVQE
 RAARSQCTYSNPEGTVVLACDQAQCRW LNVQLSPWQGSGLGLQYNASQEWDLRS
 SCGSLR LTVSIEARAAGPVDHHHHHH

Endotoxin Less than 0.1 ng/μg (1 IEU/μg).

Purity Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.

GENE INFORMATION

Gene Name CPN2 carboxypeptidase N, polypeptide 2 [Homo sapiens]

Official Symbol CPN2

Synonyms CPN2; carboxypeptidase N, polypeptide 2; ACBP, carboxypeptidase N, polypeptide 2, 83kD; carboxypeptidase N subunit 2; carboxypeptidase N 83 kDa chain; carboxypeptidase N large subunit; carboxypeptidase N regulatory subunit; carboxypeptidase N, polypeptide 2, 83kD; arginine carboxypeptidase (carboxypeptidase N); ACBP;

Gene ID 1370

mRNA Refseq NM_001080513

Protein Refseq NP_001073982

MIM 603104

UniProt ID P22792

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Chromosome Location	3q29
Function	enzyme regulator activity;