# Recombinant Human CPN2, His-tagged

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

## SPECIFICATION

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| **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 CQFRPDAFGGLPRLEDLEVTGSSFLNLSTNIFSNLTSLGKLTLNFNMLEAL PEGLF QHLAALES LHLQGNQLQALPRRLFQPLTHLKTLNLAQNLLAQLPEELFHPLT SLQTLKLS NNALSGLPQGVF GKLGSLQELFLDSNNISELPPQVFSQLFCLERLWLQ RNAITHLPLSIF ASLGNLTFLSLQWNML RVLPAGLFAHTPCLVGLSLTHNQLETVAE |

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| | GTFAHLSNLRSLMLS YNAITHLPAGIFRDLEELVK LYLGSNNLTALHPALFQNLSKLE LLSLSKNQLTTLPEGIF DTNYNLFNLALHGNPWQCDCHLAY LFNWLQQYTDRLLNI QTYCAGPAYLKGQVVPALNEK QLVCPVTRDHLGFQVTWPDESKAGGSWD LAVQE RAARSQCTYSNPEGTVVLACDQAQCRW LNVQLSPWQGSLGLQYNASQEWDLRS 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

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| **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; |

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