

Recombinant Rat CBPD Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52577

Size: 10ug, 100ug

Protein Name: Carboxypeptidase D (EC 3.4.17.22) (Metallo-carboxypeptidase D) (gp180)

Synonym: Cpd

UniProt ID: Q9JHW1

UniProt Link: www.uniprot.org/uniprotkb/Q9JHW1/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 1378 AA

Molecular Weight: 153 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MASGWDERPPWRLESLRLLPPPPLLLLLLLLLLRSSAQAAHIKKAETTTTVGGSEAAEGQFDHYYHEA
ALGEALEAAAAAGPPGLARLFSIGNSVEGRPLWVLRRLTAGLGPPPTPAAVGLDAAGPLLPGRPQVKL
VGNMHGDETFSRQVLVYLARELASGYRRGDPRLVRLNNTDVLPLSLNPDGFERAREGDCGLGD
SGPPGTSGRDNSRGRDLNRSFPDQFSTGEPPSLDEVPEVRALIDWIRRNKFVLSGNLHGGSSVASY
PFDDSPHKTTGIYSKTSDDDEVFRYLAKAYASNHPIMRTGEPHCPGDEEETFKDGITNGAHWYDVE
GGMQDYNYVWANCFEITLSCCKYPPASQLRQEWENNRESLITLIEKVHIGIKGFVKDSVTGSGLE
NATISVAGINHNITTGRFGDFHRLIPGSYNLTAVSPGYMPLTINNIVVKEGPATEIDFSLQPTVMSVVP
DSTEAVTTPGTVAVPNIPPGTPSSHQPIQPKDFHHHHFPDMEIFLRRFANEYPNITRLYSLGKSVESR
ELYVMEISDNPGVHEPGEPEFKYIGNMHGNEVVGRELLLNIEYLCKNFGTDPEVTDLVRSTRIHLMPL
SMNPDGYEKSQEGDSISVVGRRNSNNFDLNRNFPDQFVPITDPTQPETIAVMSWVKAYPFVLSANL
HGGSLVVNYPYDDNEQGVATYSKSPDDAVFQQIALSYSKENSQMFQGRPCKDMYLNIEYFPHGITN
GASWYNVPGGMQDWNLYLQTNCFEVTIELGCVKYPFEKELPKYWEQNRSLIQFMKQVHQGVKGFV
LDATDGRGILNATLSVAEINHPVTTYKAGDYWRLLVPGTYKITASARGYNPVTKNVTVRSEGAIQVNF
TLVRSSTDANNESKKGKGHSTSTDDTSKDPTKEFEALIKHLSAENGLEGFMLSSSSDLALYRYHSYK
DLSEFLRGLVMNYPHITNLTTLGQSVEYRHIWSLEISNKPNISEPEPKIRFVAGIHGNAPVGTETLLAL
AEFLCLNYKKNPVVTQLVDRTRIVIVPSLNPDGREERAQEKDCTSKTGHTNARGRDLDTDFTSNASQP
ETKAIENLIQKQDFSLSIALDGGSVLVTPYDKPVQTVENKETLKHLSLYANNHPSMHMGQPSCPN
NSDENIPGGVMRGAEWHSGLGSMKDYSVTYGHCPETVYTSCCYFPSAAQLPALWAENKKSLLSML
VEVHKGVHGLVKDKTGKPIKAVIVLNEGIRVHTKEGGYFHVLLAPGVHNINAIADGYQQQHSQVQVH



HDAASSVVIVFDTDNRI FGLPRELVVTVSGATMSALILTACIIWCICSIKSNRHKDGFHRLRQHHDEYE
DEIRMMSTGSKKSLLSHEFQDETDTEETLYSSKH

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Carboxypeptidase D (EC 3.4.17.22) (Metallo-carboxypeptidase D) (gp180) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Functions in the processing of proteins and peptides in the secretory pathway. Mechanistically, cleaves exclusively C-terminal basic residues. By removing terminal residues, can modulate the activity, stability, and receptor-binding properties of bioactive peptides.

Subcellular Localization: [Isoform 1]: Cell membrane ; Single-pass type I membrane protein . ; [Isoform 2]: Nucleus .

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.