Glutamate Carboxypeptidase 2 (FOLH1) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Glutamate carboxypeptidase 2 (Folh1), Recombinant Protein
Full Product Name	Recombinant Mouse Glutamate carboxypeptidase 2 (Folh1)
Product Gene Name	Folh1 recombinant protein
Product Synonym Gene Name	Folh1; Mopsm; Naalad1
Product Synonym Names	Glutamate carboxypeptidase 2; EC=3.4.17.21; Folate hydrolase 1; Folylpoly-gamma-glutamate carboxypeptidase; FGCP; Glutamate carboxypeptidase II; GCPII; Membrane glutamate carboxypeptidase; mGCP; N-acetylated-alpha-linked acidic dipeptidase I; NAALADase I;
Sequence	KPSNEA TGNVSHSGMK KEFLHELKAE NIKKFLYNFT RTPHLAGTQN NFELAKQIHD QWKEFGLDLV ELSHYDVLLS YPNKTHPNYI SIINEDGNEI FKTSLSEQPP PGYENISDVV PPYSAFSPQG TPEGDLVYVN YARTEDFFKL EREMKISCSG KIVIARYGKV FRGNMVKNAQ LAGAKGMILY SDPADYFVPA VKSYPDGWNL PGGGVQRGNV LNLNGAGDPL TPGYPANEHA YRHELTNAVG LPSIPVHPIG YDDAQKLLEH MGGPAPPDSS WKGGLKVPYN VGPGFAGNFS TQKVKMHIHS YTKVTRIYNV IGTLKGALEP DRYVILGGHR DAWVFGGIDP QSGAAVVHEI VRSFGTLKKK GRRPRRTILF ASWDAEEFGL LGSTEWAEEH SRLLQERGVA YINADSSIEG NYTLRVDCTP LMYSLVYNLT KELQSPDEGF EGKSLYDSWK EKSPSPEFIG MPRISKLGSG NDFEVFFQRL GIASGRARYT KNWKTNKVSS YPLYHSVYET YELVVKFYDP TFKYHLTVAQ VRGAMVFELA NSIVLPFDCQ SYAVALKKYA DTIYNISMKH PQEMKAYMIS FDSLFSAVNN FTDVASKFNQ RLQELDKSNP ILLRIMNDQL MYLERAFIDP LGLPGRPFYR HIIYAPSSHN KYAGESFPGI YDALFDISSK VNASKAWNEV KRQISIATFT VQAAAETLRE VA
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	84,574 Da
Sequence Positions	45-752
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for O35409
Species	Mus musculus (Mouse)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Folh1 recombinant protein	MBS1166113 is a recombinant protein targeting Folh1. Also known as Recombinant Mouse Glutamate carboxypeptidase 2 (Folh1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Folh1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Folh1. It may not necessarily be applicable to this product.

NCBI GI #	228008369
NCBI GeneID	53320
NCBI Accession #	NP_001153178.1
UniProt Primary Accession #	O35409
UniProt Secondary Accession #	Q0VDM5; Q9DCC2
UniProt Related Accession #	O35409
GenBank Nucleotide #	NM_001159706.1
NCBI Official Full Name	glutamate carboxypeptidase 2 isoform 2
NCBI Official Synonym Full Names	folate hydrolase 1
NCBI Official Symbol	Folh1
NCBI Official Synonym Symbols	GCP2; mopsm
UniProt Protein Name	Glutamate carboxypeptidase 2
UniProt Synonym Protein Names	Folate hydrolase 1; Folylpoly-gamma-glutamate carboxypeptidase; FGCP; Glutamate carboxypeptidase II; GCPII; Membrane glutamate carboxypeptidase; mGCP; N-acetylated-alpha-linked acidic dipeptidase I; NAALADase I; Prostate-specific membrane antigen homolog; Pteroylpoly-gamma-glutamate carboxypeptidase
Protein Family	Glutamate carboxypeptidase
UniProt Gene Name	Folh1
UniProt Synonym Gene Names	Mopsm; Naalad1; FGCP; GCPII; mGCP; NAALADase I
UniProt Entry Name	FOLH1_MOUSE
NCBI Protein Information	glutamate carboxypeptidase 2; FGCP; mGCP; GCPII; NAALADase I; glutamate carboxypeptidase II; membrane glutamate carboxypeptidase; folylpoly-gamma-glutamate carboxypeptidase; prostate-specific membrane antigen homolog; pteroylpoly-gamma-glutamate carboxypeptidase; N-acetylated-alpha-linked acidic dipeptidase I
UniProt Comments for Folh1	FOLH1: Has both folate hydrolase and N-acetylated-alpha-linked- acidic dipeptidase (NAALADase) activity. Has a preference for tri- alpha-glutamate peptides. In the intestine, required for the uptake of folate. In the brain, modulates excitatory neurotransmission through the hydrolysis of the neuropeptide, N- aceylaspartylglutamate (NAAG), thereby releasing glutamate. Isoform PSM-4 and isoform PSM-5 would appear to be physiologically irrelevant. Involved in prostate tumor progression. Belongs to the peptidase M28 family. M28B subfamily. 8 isoforms of the human protein are produced by alternative splicing. Protein type: Protease; EC 3.4.17.21; Membrane protein, integral Cellular Component: membrane; integral to plasma membrane; integral to membrane; plasma membrane Molecular Function: peptidase activity; dipeptidase activity; hydrolase activity; carboxypeptidase activity; metallopeptidase activity; metal ion binding; catalytic activity Biological Process: folic acid and derivative metabolic process; metabolic process; proteolysis
Research Articles on Folh1	**1.** Inhibition of glutamate carboxypeptidase II (GCPII) activity as a treatment for cognitive impairment in multiple sclerosis.
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