Microtubule-Associated Serine/Threonine-Protein Kinase 3 (MAST3) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Microtubule-associated serine/threonine-protein kinase 3 (Mast3), Recombinant Protein
Full Product Name	Recombinant Mouse Microtubule-associated serine/threonine-protein kinase 3 (Mast3) , partial
Product Gene Name	Mast3 recombinant protein
Product Synonym Gene Name	Mast3
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	144,174 Da
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 Q3U214
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Mast3 recombinant protein	MBS1400900 is a recombinant protein targeting Mast3. Also known as Recombinant Mouse Microtubule-associated serine/threonine-protein kinase 3 (Mast3) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Mast3 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 Mast3. It may not necessarily be applicable to this product.

NCBI GI #	256017165
NCBI GeneID	546071
NCBI Accession #	NP_955012.2
UniProt Primary Accession #	Q3U214
UniProt Secondary Accession #	Q6A047; E9QQ28
UniProt Related Accession #	Q3U214
GenBank Nucleotide #	NM_199308.2
NCBI Official Full Name	microtubule-associated serine/threonine-protein kinase 3

NCBI Official Synonym Full Names	microtubule associated serine/threonine kinase 3
NCBI Official Symbol	Mast3
NCBI Official Synonym Symbols	BC024265; mKIAA0561
UniProt Protein Name	Microtubule-associated serine/threonine-protein kinase 3
Protein Family	Microtubule-associated serine/threonine-protein kinase
UniProt Gene Name	Mast3
UniProt Synonym Gene Names	Kiaa0561
NCBI Protein Information	microtubule-associated serine/threonine-protein kinase 3
Research Articles on Mast3	**1.** We describe a novel mechanism of signal transduction enriched in medium spiny neurons of striatum that likely mediates effects of the neurotransmitter dopamine acting on these cells. We find that the protein ARPP-16, which is highly expressed in striatal medium spiny neurons, acts as a selective inhibitor of certain forms of the serine/threonine protein phosphatase, PP2A, when phosphorylated by the kinase, MAST3.
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