Neurogenic Differentiation Factor 4 (NEUROD4) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Neurogenic differentiation factor 4 (Neurod4), Recombinant Protein
Full Product Name	Recombinant Mouse Neurogenic differentiation factor 4 (Neurod4)
Product Gene Name	Neurod4 recombinant protein
Sequence	MAKMYMKSKD MVELVNTQSW MDKGLSSQNE MKEQERRPGS YGMLGTLTEE HDSIEEDEEE EEDGDKPKRR GPKKKKMTKA RLERFRARRV KANARERTRM HGLNDALDNL RRVMPCYSKT QKLSKIETLR LARNYIWALS EVLETGQTLE GKGFVEMLCK GLSQPTSNLV AGCLQLGPQS TLLEKHEEKS SICDSTISVH SFNYQSPGLP SPPYGHMETH SLHLKPQPFK SLGDSFGSHP PDCSTPPYEG PLTPPLSISG NFSLKQDGSP DLEKSYNFMP HYTSASLSSG HVHSTPFQTG TPRYDVPVDL SYDSYSHHSI GTQLNTIFSD
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	37,133 Da
Sequence Positions	1-330, Full length protein
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 O09105
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Neurod4 recombinant protein	MBS1254311 is a recombinant protein targeting Neurod4. Also known as Recombinant Mouse Neurogenic differentiation factor 4 (Neurod4). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Neurod4 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 Neurod4. It may not necessarily be applicable to this product.

NCBI GI #	1043916025
NCBI GeneID	11923
NCBI Accession #	NP_001316418.1
UniProt Primary Accession #	O09105
UniProt Related Accession #	O09105

GenBank Nucleotide #	NM_001329489.1
NCBI Official Full Name	neurogenic differentiation factor 4
NCBI Official Synonym Full Names	neurogenic differentiation 4
NCBI Official Symbol	Neurod4
NCBI Official Synonym Symbols	ATH-3; Atoh3; Math3; MATH-3; bHLHa4; AI846749
UniProt Protein Name	Neurogenic differentiation factor 4
UniProt Synonym Protein Names	Helix-loop-helix protein mATH-3; mATH3; Protein atonal homolog 3
Protein Family	Neurogenic differentiation factor
UniProt Gene Name	Neurod4
UniProt Synonym Gene Names	Ath3; Atoh3; NeuroD4; mATH3
NCBI Protein Information	neurogenic differentiation factor 4
NCBI Summary for Neurod4	This gene belongs to the neurogenic differentiation factor family and encodes a basic helix-loop-helix (bHLH) transcription factor which is expressed in the developing nervous system with high levels of expression in the brain, retina and cranial ganglions. Expression gradually becomes restricted to the neural retina. It is a key gene in the Ngn2-regulated neuronal differentiation pathway, coordinating the onset of cortical gene transcription. This gene also regulates amacrine cell fate determination in the retina. [provided by RefSeq, Jul 2016]
UniProt Comments for Neurod4	Probably acts as a transcriptional activator. Mediates neuronal differentiation. Required for the regulation of amacrine cell fate specification in the retina.
Research Articles on Neurod4	**1.** In the sensory ganglia, early expression of NeuroD4 is terminated in mid gestation by Brn3a and Isl1 which bind to a shared enhancer in the NeuroD4 locus.
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