Homeobox Protein Orthopedia (OTP) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Homeobox protein orthopedia (Otp), Recombinant Protein
Full Product Name	Recombinant Mouse Homeobox protein orthopedia (Otp)
Product Gene Name	Otp recombinant protein
Sequence	MLSHADLLDA RLGMKDAAEL LGHREAVKCR LGVGGSDPGG HPGDLAPNSD PVEGATLLPG EDITTVGSTP ASLAVSAKDP DKQPGPQGGP NPSQAGQQQG QQKQKRHRTR FTPAQLNELE RSFAKTHYPD IFMREELALR IGLTESRVQV WFQNRRAKWK KRKKTTNVFR APGTLLPTPG LPQFPSAAAA AAAAMGDSLC SFHANDTRWA AAAMPGVSQL PLPPALGRQQ AMAQSLSQCS LAAGPPPNSM GLSNSLAGSN GAGLQSHLYQ PAFPGMVPAS LPGPSNVSGS PQLCSSPDSS DVWRGTSIAS LRRKALEHTV SMSFT
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	34,159 Da
Sequence Positions	1-325, 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 O09113
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Otp recombinant protein	This gene encodes a member of the homeodomain (HD) family. HD family proteins are helix-turn-helix transcription factors that play key roles in the specification of cell fates. This protein may function during brain development.
Other Notes	Small volumes of Otp 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.
Searchable Terms for Otp purchase	MBS1254000 is a recombinant protein targeting Otp. Also known as Recombinant Mouse Homeobox protein orthopedia (Otp). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

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

NCBI GI #	6754958
NCBI GeneID	18420
NCBI Accession #	NP_035151.1
UniProt Primary Accession #	O09113

UniProt Related Accession #	O09113
GenBank Nucleotide #	NM_011021.3
NCBI Official Full Name	homeobox protein orthopedia
NCBI Official Synonym Full Names	orthopedia homeobox
NCBI Official Symbol	Otp
UniProt Protein Name	Homeobox protein orthopedia
Protein Family	Homeobox protein
UniProt Gene Name	Otp
NCBI Protein Information	homeobox protein orthopedia
UniProt Comments for Otp	Involved in the specification of hypothalamic neuroendocrine cells. Specifically required for the specification of diencephalic dopaminergic neurons of the A11 group.
Research Articles on Otp	**1.** Otp and TTF-1 are essential for the normal morphological development of the hypothalamus, including the arcuate nucleus [review]
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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