F-Box/Wd Repeat-Containing Protein 4 (FBXW4) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	F-box/WD repeat-containing protein 4 (Fbxw4), Recombinant Protein
Full Product Name	Recombinant Mouse F-box/WD repeat-containing protein 4 (Fbxw4)
Product Gene Name	Fbxw4 recombinant protein
Product Synonym Gene Name	Fbxw4
Sequence	MAEDAAEDAA AAAVEPATRP AAGPALWRLP EELLLLICSY LDTRALGRLA QVCRWLRRFT SCDLLWRPIA RASLNTGFTR LGTDLMAGIP VKERVKLSQN WRLGRCRDRI LLKWRYSQMP WMQLQDASLY LSQANFILAY QFRPDGASLN RRPFRVFSGH DEDVCHFVLA NSHIVSAGGD GKIGVHKIHS TFTVKYSAHE QEVNCVDCKG GIIVSGSRDR TAKVWPLASG RLGQCLHTIQ TEDRVWSIAI SPLLSSFVTG TACCGHFSPL RIWDLNSGQL ITHLGSDFPP GAGVLDVMYE SPSTLLSCGY DTYVRYWDLR TSTRKCVMEW EEPHDSTFYC LQTDGNHLLA TGSSYYGLVR LWDRRQRACL HAFSLTSTPL SSPVYCLRFT TRHLYAALSY NLHVLDFQNP
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	46,142 Da
Sequence Positions	1-410, 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 Q9JMJ2
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Fbxw4 recombinant protein	This gene is a member of the F-box WD-40 gene family, which recruit specific target proteins through their WD-40 protein-protein binding domains for ubiquitin mediated degradation. In mouse, a highly similar protein is thought to be responsible for maintaining the apical ectodermal ridge of developing limb buds; disruption of the mouse gene results in the absence of central digits, underdeveloped or absent metacarpal metatarsal bones and syndactyly. This phenotype is remarkably similar to split hand-split foot malformation in humans, a clinically heterogeneous condition with a variety of modes of transmission. An autosomal recessive form has been mapped to the chromosomal region where this gene is located, and complex rearrangements involving duplications of this gene and others have been associated with the condition. A pseudogene of this locus has been mapped to one of the introns of the BCR gene on chromosome 22.
Other Notes	Small volumes of Fbxw4 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 Fbxw4 purchase	MBS1421834 is a recombinant protein targeting Fbxw4. Also known as Recombinant Mouse F-box/WD repeat-containing protein 4 (Fbxw4). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Fbxw4. It may not necessarily be applicable to this product.

NCBI GI #	14780880
NCBI GeneID	30838
NCBI Accession #	NP_038935.1
UniProt Primary Accession #	Q9JMJ2
UniProt Secondary Accession #	Q9QXW3
UniProt Related Accession #	Q9JMJ2
GenBank Nucleotide #	NM_013907.2
NCBI Official Full Name	F-box/WD repeat-containing protein 4
NCBI Official Synonym Full Names	F-box and WD-40 domain protein 4
NCBI Official Symbol	Fbxw4
NCBI Official Synonym Symbols	Dac; Fbw4; SHFM3; SHSF3; dactylin; dactylyn
UniProt Protein Name	F-box/WD repeat-containing protein 4
UniProt Synonym Protein Names	F-box and WD-40 domain-containing protein 4; Protein hagoromo
Protein Family	F-box/WD repeat-containing protein
UniProt Gene Name	Fbxw4
UniProt Synonym Gene Names	Fbw4
NCBI Protein Information	F-box/WD repeat-containing protein 4
UniProt Comments for Fbxw4	Probably recognizes and binds to some phosphorylated proteins and promotes their ubiquitination and degradation. Likely to be involved in key signaling pathways crucial for normal limb development. May participate in Wnt signaling.
Research Articles on Fbxw4	**1.** Dactylaplasia in mouse is not associated with duplication of Fbxw4, in contrast with the described human cases.
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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