Bardet-Biedl Syndrome 7 Protein Homolog (BBS7) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Bardet-Biedl syndrome 7 protein homolog (Bbs7), Recombinant Protein
Full Product Name	Recombinant Mouse Bardet-Biedl syndrome 7 protein homolog (Bbs7)
Product Gene Name	Bbs7 recombinant protein
Product Synonym Gene Name	Bbs7
Sequence	MDLTLSRADY LQVGVTSQKT MKLLPTSRQR ATQKVVVGDQ DGVVICFGVK KGEAVPVFKT LPGQKISRLE LGGAVNTPQE KIFIAAGSEI RGFTKRGKQF LSFETNLTES IKAMYISGSD LFLSASYIYN HYCDCKDQNY YLSGDKINDV ICLPVEKLSR VTPVLACQDR VLRVLQGSDV MYEIEVPGPP TVLALHNGDG GDSGEGLLFG TSDGRLGLIQ ITTSKPIHKW EIRNDKKRGG ILCVDSFDIM GDGVKDLLVG RDDGMVEVYS FENANEPVLR FDQMLSESVT SIQGGCVGKD GYDEIVLATY SGWVTGLTTE PTHKESGPGE ELKLNQEMQN KISSLRSEIE HLQFKVLQER ENYQQSSQSS QAKSTVPSFS INDKFTLNKE DASYSLVLEV RTAIDNVLIQ SDVPIDLLDV DKNSAVVSFS SCDTESNDNF LLATYRCQAN TTRLELKIRS IEGQYGTLQA YVTPRIQPKT CQVRQYHIKP LSLHQRTHFI DHDRPMNTLT LTGQFSFAEV HSWVVFCLPE VPEKPPAGEC ATFYFQNTFL DTQLECVYRK GEGVFKSDNI STISILKDVL SKEATKRKIN LNISYEINEV SVKHTLKLIH PKLEYQLLLA KKVQLIDALK ELQVHEGNTD FLTPEYRCIL EEADHLQEEY KKQPAHLERL YGMITDLFID KFKFKGTNVK TKVPMLLEIL DSYDQNTLIS FFDAA
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	18,201 Da
Sequence Positions	1-715, 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 Q8K2G4
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Bbs7 recombinant protein	Mutations in this gene have been observed in patients with Bardet-Biedl syndrome type 7. The encoded protein may play a role in eye, limb, cardiac and reproductive system development. Two transcript variants encoding distinct isoforms have been identified for this gene.
Other Notes	Small volumes of Bbs7 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 Bbs7 purchase	MBS1473713 is a recombinant protein targeting Bbs7. Also known as Recombinant Mouse Bardet-Biedl syndrome 7 protein homolog (Bbs7). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Bbs7. It may not necessarily be applicable to this product.

NCBI GI #	170650593
NCBI GeneID	71492
NCBI Accession #	NP_082086.2
UniProt Primary Accession #	Q8K2G4
UniProt Secondary Accession #	Q8C7G3; Q8CH00; Q9CXC2
UniProt Related Accession #	Q8K2G4
GenBank Nucleotide #	NM_027810.3
NCBI Official Full Name	Bardet-Biedl syndrome 7 protein homolog
NCBI Official Synonym Full Names	Bardet-Biedl syndrome 7 (human)
NCBI Official Symbol	Bbs7
NCBI Official Synonym Symbols	8430406N16Rik
UniProt Protein Name	Bardet-Biedl syndrome 7 protein homolog
UniProt Synonym Protein Names	BBS2-like protein 1
Protein Family	Bardet-Biedl syndrome 7 protein
UniProt Gene Name	Bbs7
UniProt Synonym Gene Names	Bbs2l1
NCBI Protein Information	Bardet-Biedl syndrome 7 protein homolog
UniProt Comments for Bbs7	The BBSome complex is thought to function as a coat complex required for sorting of specific membrane proteins to the primary cilia. The BBSome complex is required for ciliogenesis but is dispensable for centriolar satellite function. This ciliogenic function is mediated in part by the Rab8 GDP/GTP exchange factor, which localizes to the basal body and contacts the BBSome. Rab8(GTP) enters the primary cilium and promotes extension of the ciliary membrane. Firstly the BBSome associates with the ciliary membrane and binds to RAB3IP/Rabin8, the guanosyl exchange factor (GEF) for Rab8 and then the Rab8-GTP localizes to the cilium and promotes docking and fusion of carrier vesicles to the base of the ciliary membrane. The BBSome complex, together with the LTZL1, controls SMO ciliary trafficking and contributes to the sonic hedgehog (SHH) pathway regulation. Required for BBSome complex ciliary localization but not for the proper complex assembly ().
Research Articles on Bbs7	**1.** BBS7 is not required for the localization of ciliary membrane proteins polycystin-1, polycystin-2, or bitter taste receptors, but absence of BBS7 leads to abnormal accumulation of the dopamine D1 receptor to the ciliary membrane
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