Melanoma-Associated Antigen D2 (MAGED2) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Melanoma-associated antigen D2 (MAGED2), Recombinant Protein
Full Product Name	Recombinant Human Melanoma-associated antigen D2 (MAGED2)
Product Gene Name	MAGED2 recombinant protein
Product Synonym Gene Name	MAGED2
Sequence	SDTSESGAGL TRFQAEASEK DSSSMMQTLL TVTQNVEVPE TPKASKALEV SEDVKVSKAS GVSKATEVSK TPEAREAPAT QASSTTQLTD TQVLAAENKS LAADTKKQNA DPQAVTMPAT ETKKVSHVAD TKVNTKAQET EAAPSQAPAD EPEPESAAAQ SQENQDTRPK VKAKKARKVK HLDGEEDGSS DQSQASGTTG GRRVSKALMA SMARRASRGP IAFWARRASR TRLAAWARRA LLSLRSPKAR RGKARRRAAK LQSSQEPEAP PPRDVALLQG RANDLVKYLL AKDQTKIPIK RSDMLKDIIK EYTDVYPEII ERAGYSLEKV FGIQLKEIDK NDHLYILLST LEPTDAGILG TTKDSPKLGL LMVLLSIIFM NGNRSSEAVI WEVLRKLGLR PGIHHSLFGD VKKLITDEFV KQKYLDYARV PNSNPPEYEF FWGLRSYYET SKMKVLKFAC KVQKKDPKEW AAQYREAMEA DLKAAAEAAA EAKARAEIRA RMGIGLGSEN AAGPCNWDEA DIGPWAKARI QAGAEAKAKA QESGSASTGA STSTNNSASA SASTSGGFSA GASLTATLTF GLFAGLGGAG ASTSGSSGAC GFSYK
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	63,167 Da
Sequence Positions	2-606, 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.
OMIM	300470
3D Structure	ModBase 3D Structure for Q9UNF1
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for MAGED2 recombinant protein	This gene is a member of the MAGED gene family. While the MAGEA and MAGEB genes are silent in normal tissues with the exception of testis and placenta, the MAGED genes are expressed ubiquitously. The MAGED genes are clustered on chromosome Xp11. This gene is located in Xp11.2, a hot spot for X-linked mental retardation (XLMR). Multiple alternatively spliced transcript variants have been found for this gene, however, the full length nature of some variants has not been defined.
Other Notes	Small volumes of MAGED2 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 MAGED2 purchase	MBS1391389 is a recombinant protein targeting MAGED2. Also known as Recombinant Human Melanoma-associated antigen D2 (MAGED2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MAGED2. It may not necessarily be applicable to this product.

NCBI GI #	19387846
NCBI GeneID	10916
NCBI Accession #	NP_055414.2
UniProt Primary Accession #	Q9UNF1
UniProt Secondary Accession #	O76058; Q5BJF3; Q8NAL6; Q9H218; Q9P0U9; Q9UM52; A6NMX0
UniProt Related Accession #	Q9UNF1
GenBank Nucleotide #	NM_014599.5
NCBI Official Full Name	melanoma-associated antigen D2
NCBI Official Synonym Full Names	MAGE family member D2
NCBI Official Symbol	MAGED2
NCBI Official Synonym Symbols	11B6; BCG1; BCG-1; HCA10; BARTS5; MAGE-D2
UniProt Protein Name	Melanoma-associated antigen D2
UniProt Synonym Protein Names	11B6; Breast cancer-associated gene 1 protein; BCG-1; Hepatocellular carcinoma-associated protein JCL-1; MAGE-D2 antigen
Protein Family	Melanoma-associated antigen
UniProt Gene Name	MAGED2
UniProt Synonym Gene Names	BCG1; BCG-1
NCBI Protein Information	melanoma-associated antigen D2
NCBI Summary for MAGED2	This gene is a member of the MAGED gene family. The MAGED genes are clustered on chromosome Xp11. This gene is located in Xp11.2, a hot spot for X-linked intellectual disability (XLID). Mutations in this gene cause a form of transient antenatal Bartter's syndrome. This gene may also be involved in several types of cancer, including breast cancer and melanoma. The protein encoded by this gene is progressively recruited from the cytoplasm to the nucleoplasm during the interphase and after nucleolar stress and is thus thought to play a role in cell cycle regulation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2017]
UniProt Comments for MAGED2	Regulates the expression, localization to the plasma membrane and function of the sodium chloride cotransporters SLC12A1 and SLC12A3, two key components of salt reabsorption in the distal renal tubule.
Research Articles on MAGED2	**1.** Increased expression of MAGE-D2 mRNA was associated with distant metastasis in Gastric Cancer.
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