FAAP100 Peptide - N-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	FAAP100, Blocking Peptide
Full Product Name	FAAP100 Peptide - N-terminal region
Product Gene Name	FAAP100 blocking peptide
Product Synonym Gene Name	C17orf70; FAAP100
Sequence	HPGRSRSTSQ DDRDSEDGDQ PSPVIPVDPD ACILPDAALC AFTLLDSVLV
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	FAAP100 peptide (MBS3240568) is used for blocking the activity of FAAP100 antibody (MBS3215665)
Molecular Weight	80kDa
OMIM	139265
Product Categories/Family for FAAP100 blocking peptide	Peptide
Applications Tested/Suitable for FAAP100 blocking peptide	Western Blot (WB)
Related Product Information for FAAP100 blocking peptide	FAAP100 is a component of the Fanconi anemia (FA; MIM 277650) core complex and is required for core complex stability and FANCD2 (see MIM 227646) monoubiquitination (Ling et al., 2007 [PubMed 17396147]).[supplied by OMIM, Mar 2008]
Other Notes	Small volumes of FAAP100 blocking peptide 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 FAAP100 purchase	MBS3240568 is a blocking peptide targeting FAAP100. Also known as FAAP100 Peptide - N-terminal region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FAAP100. It may not necessarily be applicable to this product.

NCBI GI #	156104880
NCBI GeneID	2766
NCBI Accession #	NP_006868
UniProt Primary Accession #	P36959
UniProt Related Accession #	P36959
GenBank Nucleotide #	NM_006877
NCBI Official Full Name	GMP reductase 1
NCBI Official Synonym Full Names	guanosine monophosphate reductase

NCBI Official Symbol	GMPR
NCBI Official Synonym Symbols	GMPR1; GMPR 1
UniProt Protein Name	GMP reductase 1
UniProt Synonym Protein Names	Guanosine 5'-monophosphate oxidoreductase 1; Guanosine monophosphate reductase 1
Protein Family	Fanconi anemia core complex-associated protein
UniProt Gene Name	GMPR
UniProt Synonym Gene Names	GMPR1; Guanosine monophosphate reductase 1
UniProt Entry Name	GMPR1_HUMAN
NCBI Protein Information	GMP reductase 1
NCBI Summary for FAAP100	This gene encodes an enzyme that catalyzes the irreversible and NADPH-dependent reductive deamination of GMP to IMP. The protein also functions in the re-utilization of free intracellular bases and purine nucleosides.[provided by RefSeq, Oct 2009]
UniProt Comments for FAAP100	GMPR: Catalyzes the irreversible NADPH-dependent deamination of GMP to IMP. It functions in the conversion of nucleobase, nucleoside and nucleotide derivatives of G to A nucleotides, and in maintaining the intracellular balance of A and G nucleotides. Belongs to the IMPDH/GMPR family. Protein type: Nucleotide Metabolism - purine; Oxidoreductase; EC 1.7.1.7 Chromosomal Location of Human Ortholog: 6p23 Cellular Component: cytosol Molecular Function: GMP reductase activity; metal ion binding Biological Process: nucleobase, nucleoside and nucleotide metabolic process; nucleotide metabolic process; response to cold; purine base metabolic process; purine salvage
Research Articles on FAAP100	**1.** GMPR as a suppressor of melanoma invasion is downregulated at the early invasive stages of melanoma progression and whose activity inhibits melanoma cell invasion by depleting intracellular GTP pools.
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