CSF2RA Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	CSF2RA, Blocking Peptide
Full Product Name	CSF2RA Blocking Peptide
Product Gene Name	CSF2RA blocking peptide
Product Synonym Names	CD_antigen=CD116; CD116; CD116 antigen; CDw116; Colony stimulating factor 2 receptor alpha chain; Colony stimulating factor 2 receptor alpha low affinity; Colony stimulating factor 2 receptor alpha subunit; CSF 2R; CSF2R; CSF2R_HUMAN; CSF2RA; CSF2RAX; CSF2RAY; CSF2RX; CSF2RY; GM CSF R alpha; GM CSF receptor alpha subunit; GM-CSF-R-alpha; GMCSFR; GMCSFR-alpha; GMR-alpha; Granulocyte macrophage colony stimulating factor receptor alpha chain; Granulocyte-macrophage colony-stimulating factor receptor subunit alpha; SMDP4
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	CSF2RA peptide (MBS9626576) is used for blocking the activity of CSF2RA antibody (MBS9607864)
Molecular Weight	46,207 Da
Chromosome Location	Chromosome: Y; NC_000024.9 (1337693..1378828). Location: Xp22.32 and Yp11.3
OMIM	300770
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for CSF2RA blocking peptide	Blocking/Control
Related Product Information for CSF2RA blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of CSF2RA 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 CSF2RA purchase	MBS9626576 is a blocking peptide targeting CSF2RA.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CSF2RA. It may not necessarily be applicable to this product.

NCBI GI #	238908515
NCBI GeneID	1438

NCBI Accession #	NP_001155001.1
UniProt Primary Accession #	P15509
UniProt Secondary Accession #	O00207; Q14429; Q14430; Q14431; Q16564; A7J003; A8KAM1; B4DW68; J3JS76; J3JS77
UniProt Related Accession #	P15509
GenBank Nucleotide #	NM_001161529.1
NCBI Official Full Name	granulocyte-macrophage colony-stimulating factor receptor subunit alpha isoform a
NCBI Official Synonym Full Names	colony stimulating factor 2 receptor, alpha, low-affinity (granulocyte-macrophage)
NCBI Official Symbol	CSF2RA
NCBI Official Synonym Symbols	GMR; CD116; CSF2R; SMDP4; CDw116; CSF2RX; CSF2RY; GMCSFR; CSF2RAX; CSF2RAY; GM-CSF-R-alpha
UniProt Protein Name	Granulocyte-macrophage colony-stimulating factor receptor subunit alpha
UniProt Synonym Protein Names	CDw116
Protein Family	Granulocyte-macrophage colony-stimulating factor receptor
UniProt Gene Name	CSF2RA
UniProt Synonym Gene Names	CSF2R; CSF2RY; GM-CSF-R-alpha; GMCSFR-alpha; GMR-alpha
UniProt Entry Name	CSF2R_HUMAN
NCBI Protein Information	granulocyte-macrophage colony-stimulating factor receptor subunit alpha; GMR-alpha; GMCSFR-alpha; CD116 antigen; GM-CSF receptor alpha subunit; colony stimulating factor 2 receptor alpha subunit; granulocyte-macrophage colony-stimulating factor receptor a
NCBI Summary for CSF2RA	The protein encoded by this gene is the alpha subunit of the heterodimeric receptor for colony stimulating factor 2, a cytokine which controls the production, differentiation, and function of granulocytes and macrophages. The encoded protein is a member of the cytokine family of receptors. This gene is found in the pseudoautosomal region (PAR) of the X and Y chromosomes. Multiple transcript variants encoding different isoforms have been found for this gene, with some of the isoforms being membrane-bound and others being soluble. [provided by RefSeq, Jul 2008]
UniProt Comments for CSF2RA	CSF2RA: Low affinity receptor for granulocyte-macrophage colony- stimulating factor. Transduces a signal that results in the proliferation, differentiation, and functional activation of hematopoietic cells. Defects in CSF2RA are the cause of pulmonary surfactant metabolism dysfunction type 4 (SMDP4). A rare lung disorder due to impaired surfactant homeostasis. It is characterized by alveolar filling with floccular material that stains positive using the periodic acid-Schiff method and is derived from surfactant phospholipids and protein components. Excessive lipoproteins accumulation in the alveoli results in severe respiratory distress. Belongs to the type I cytokine receptor family. Type 5 subfamily. 8 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Receptor, cytokine Chromosomal Location of Human Ortholog: Xp22.32 and Yp11.3 Cellular Component: integral to plasma membrane; extracellular region; plasma membrane Molecular Function: hematopoietin/interferon-class (D200-domain) cytokine receptor activity; receptor activity Biological Process: response to ethanol; cytokine and chemokine mediated signaling pathway Disease: Surfactant Metabolism Dysfunction, Pulmonary, 4
Research Articles on CSF2RA	**1.** The GM-CSF Ralpha were ubiquitously but not uniformly expressed in neurons throughout the brain and downregulation in brain in patient with alzheimenr disease.
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