

Allograft inflammatory factor 1 Recombinant Protein | Aif1 recombinant protein

Recombinant Mouse Allograft inflammatory factor 1

CATALOG # AAA114715	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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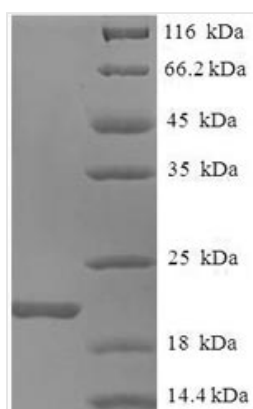
PRODUCT SYNONYMS

Allograft inflammatory factor 1; Recombinant Mouse Allograft inflammatory factor 1; Ionized calcium-binding adapter molecule 1; Aif1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	2-147aa; Full Length of Mature Protein
Sequence	SQSRDLQGGK AFGLLKAQQE ERLEGINKQF LDDPKYSNDE DLPSKLEAFK VKYMEFDLNG NGDIDIMSLK RMLEKLGVPK THLELKRLIR EVSSGSEETF SYSDFLRMML GKRSAILRMI LMYEEKNKEH KRPTGPPAKK AISELP
Production Note	Special Offer: The E Coli host-expressed protein is manufactured from a stock plasmid containing the protein gene. E Colihost-expressed protein is stocked in different unit sizes ranging from as small as 10 ug to as large as 1 mg. Bulk inventory is also available. The E Coli host-expressed protein has been ordered over and over again by researchers and has stood the test of time as both a robust protein and important target for the research community. It is part of our new program to make our most popular protein targets and corresponding hosts available in expanded unit sizes and with a quick processing time. Select E Coli host-expressed protein for the fastest delivery among all hosts. Please contact our or email to for more details.
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for Aif1 recombinant protein	Actin-binding protein that enhances membrane ruffling and RAC activation. Enhances the actin-bundling activity of LCP1. Binds calcium. Plays a role in RAC signaling and in phagocytosis. May play a role in macrophage activation and function. Promotes the proliferation of vascular smooth muscle cells and of T-lymphocytes. Enhances lymphocyte migration. Plays a role in vascular inflammation.
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References	Allograft inflammatory factor-1 augments productions of interleukin-6, -10, -12 by a mouse macrophage line.Watano K., Iwabuchi K., Fujii S., Ishimori N., Mitsuhashi S., Ato M., Kitabatake A., Onoe K.Immunology 104:307-316(2001) Structure of the mouse iba1 gene.Imai Y., Ohsawa K., Kohsaka S. Allograft inflammatory factor-1 gene.Hu S.P., Russell M.E. Analysis of the gene-dense major histocompatibility complex class III region and its comparison to mouse.Xie T., Rowen L., Aguado B., Ahearn M.E., Madan A., Qin S., Campbell R.D., Hood L.Genome Res. 13:2621-2636(2003) Involvement of Iba1 in membrane ruffling and phagocytosis of macrophages/microglia.Ohsawa K., Imai Y., Kanazawa H., Sasaki Y., Kohsaka S.J. Cell Sci. 113:3073-3084(2000) Iba1 is an actin-cross-linking protein in macrophages/microglia.Sasaki Y., Ohsawa K., Kanazawa H., Kohsaka S., Imai Y.Biochem. Biophys. Res. Commun. 286:292-297(2001) Macrophage/microglia-specific protein Iba1 enhances membrane ruffling and Rac activation via phospholipase C-gamma -dependent pathway.Kanazawa H., Ohsawa K., Sasaki Y., Kohsaka S., Imai Y.J. Biol. Chem. 277:20026-20032(2002) Microglia/macrophage-specific protein Iba1 binds to fimbrin and enhances its actin-bundling activity.Ohsawa K., Imai Y., Sasaki Y., Kohsaka S.J. Neurochem. 88:844-856(2004) X-ray structures of the microglia/macrophage-specific protein Iba1 from human and mouse demonstrate novel molecular conformation change induced by calcium binding.Yamada M., Ohsawa K., Imai Y., Kohsaka S., Kamitori S.J. Mol. Biol. 364:449-457(2006)
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NCBI AND UNIPROT INFORMATION

NCBI GI #	9506379
NCBI GeneID	11629
NCBI Accession #	NP_062340.1
NCBI GenBank Nucleotide #	NM_019467.2
UniProt Accession #	O70200
Molecular Weight	20.8 kDa
NCBI Official Full Name	allograft inflammatory factor 1
NCBI Official Synonym Full Names	allograft inflammatory factor 1
NCBI Official Symbol	Aif1
NCBI Official Synonym Symbols	G1; Iba1; AIF-1; AI607846; D17H6S50E
NCBI Protein Information	allograft inflammatory factor 1
UniProt Protein Name	Allograft inflammatory factor 1
UniProt Gene Name	Aif1
UniProt Synonym Gene Names	Iba1; AIF-1
UniProt Entry Name	AIF1_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.