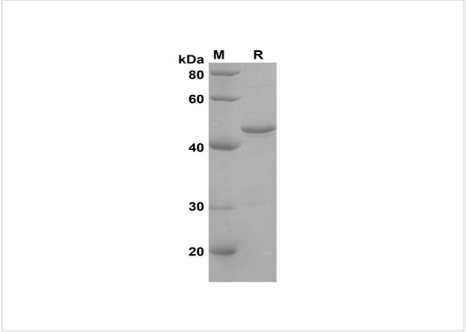
AIF1 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	AIF1, Recombinant Protein
Full Product Name	Recombinant Human AIF1 Protein (Gst Tag)
Product Gene Name	AIF1 recombinant protein
Sequence	Met1-Pro14 7
Host	E coli
Form/Format	Lyophilized from a 0.2um filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Purity/Purification	>90% as determined by reducing SDS-PAGE.
Preparation and Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 degree C. Reconstituted protein solution can be stored at 4-8 degree C for 2-7 days. Aliquots of reconstituted samples are stable at < -20 degree C for 3 months.
Molecular Weight	147
OMIM	601833
3D Structure	ModBase 3D Structure for P55008
Species	Human
Tag	N-Gst
Endotoxin	<10EU/mg of the protein as determined by the LAL method.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5mg/mL. Concentration is measured by UV-Vis.
Product Categories/Family for AIF1 recombinant protein	Proteins; Recombinant Proteins; Others
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for AIF1 recombinant protein	AIF1, also known as IBA1, is an actin-binding protein. AIF1 is expressed selectively in human macrophage-like cell lines, and in a subset of CD68(+) macrophages in the interstitial and perivascular spaces of human heart allografts. It is expressed in macrophages and neutrophils. AIF1 enhances membrane ruffling and RAC activation. AIF1 enhances the actin-bundling activity of LCP1. It also enhances lymphocyte migration. AIF1 may play a role in macrophage activation and function. It binds calcium and plays a role in RAC signaling and in phagocytosis. It promotes the proliferation of vascular smooth muscle cells and of T-lymphocytes.
Other Notes	Small volumes of AIF1 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 AIF1 purchase	MBS2580281 is a recombinant protein targeting AIF1. Also known as Recombinant Human AIF1 Protein (Gst Tag). Host: E coli.



SDS-PAGE of AIF1 recombinant protein
SDS-PAGE analysis of Human AIF1 proteins, 2ug/lane of Recombinant Human AIF1 proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 45KD

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AIF1. It may not necessarily be applicable to this product.

NCBI GI #	1703217
NCBI GeneID	199
NCBI Accession #	P55008.1
UniProt Primary Accession #	P55008
UniProt Secondary Accession #	O43904; Q9UIV4; Q9UKS9; A8K406
UniProt Related Accession #	P55008
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	IBA1; IRT1; AIF-1; IRT-1
UniProt Protein Name	Allograft inflammatory factor 1
UniProt Synonym Protein Names	Ionized calcium-binding adapter molecule 1; Protein G1
Protein Family	Allograft inflammatory factor
UniProt Gene Name	AIF1
UniProt Synonym Gene Names	G1; IBA1; AIF-1
UniProt Entry Name	AIF1_HUMAN
NCBI Protein Information	allograft inflammatory factor 1; protein G1; interferon gamma responsive transcript; ionized calcium-binding adapter molecule 1; allograft inflammatory factor-1 splice variant Hara-1
NCBI Summary for AIF1	This gene is induced by cytokines and interferon. Its protein product is thought to be involved in negative regulation of growth of vascular smooth muscle cells, which contributes to the anti-inflammatory response to vessel wall trauma. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2008]

UniProt Comments for AIF1	AIF1: 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. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Cytoskeletal Chromosomal Location of Human Ortholog: 6p21.3 Cellular Component: perinuclear region of cytoplasm; lamellipodium; cytoplasm; actin filament; perikaryon; nucleus; cytosol; phagocytic cup Molecular Function: actin filament binding; calcium ion binding Biological Process: actin filament bundle formation; positive regulation of nitric oxide biosynthetic process; negative regulation of smooth muscle cell proliferation; positive regulation of smooth muscle cell proliferation; microglial cell activation; Rac protein signal transduction; cellular response to hormone stimulus; actin filament polymerization; positive regulation of muscle hyperplasia; cellular response to extracellular stimulus; positive regulation of T cell proliferation; response to axon injury; positive regulation of protein amino acid phosphorylation; phagocytosis, engulfment; response to electrical stimulus; inflammatory response; negative regulation of apoptosis
Research Articles on AIF1	**1.** AIF-1 functions as a tumor suppressor possibly by regulating beta-catenin in gastric cancer. the level of AIF-1 expression may serve as a protective prognostic indicator for gastric cancer.
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