Human IBA1 / AIF1 Protein (His Tag)

Catalog Number: **14227-H07E**

General Information

Gene Name Synonym:

AIF-1; IBA1; IRT-1; IRT1

Protein Construction:

A DNA sequence encoding the mature form of human AIF1 (P55008-1) (Met1-Pro147) was expressed with a polyhistide tag at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 85 % as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 ℃

Predicted N terminal: His

Molecular Mass:

The recombinant human AIF1 consists of 162 amino acids and predicts a molecular mass of 18.5 KDa. It migrates as an approximately 18 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, 10% glycerol, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

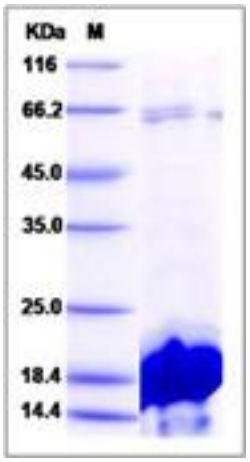
Store it under sterile conditions at -20℃ to -80℃ upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

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.

References

1.Albertella M.R., *et al.*,(1994), Characterization of a novel gene in the human major histocompatibility complex that encodes a potential new member of the I kappa B family of proteins. Hum. Mol. Genet. 3:793-799.
2.Holzinger I., *et al.*, (1995), Cloning and genomic characterization of LST1: a new gene in the human TNF region.Immunogenetics 42:315-322.
3.Autieri M.V., *et al.*,(1996), cDNA cloning of human allograft inflammatory factor-1: tissue distribution, cytokine induction, and mRNA expression in injured rat carotid arteries.Biochem. Biophys. Res. Commun. 228:29-37.