



Allograft Inflammatory Factor, His Tag, human recombinant, (rHuAIF-1-His)

Catalog No: 97375
Lot No: XXXXX
Source: *E. coli*
Synonyms: AIF-1, Allograft inflammatory factor 1, Em:AF129756.17, G1, IBA1, Ionized calcium-binding adapter molecule 1, IRT-1, Protein G1, AIF1

Background

Human AIF1 protein shares 98% homology/identity with that of rat. AIF1 is expressed in macrophages and neutrophils. The expression of AIF1 transcripts is upregulated by IFN-g in rat macrophages. 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. In quiescent cultured human vascular smooth muscle cells synthesis of AIF1 is induced by IFN-g, IL1b, and conditioned medium of T-cells. Overexpression of AIF1 in human VSMCs results in enhanced growth of these cells. AIF1 is expressed during apoptosis rat mammary gland and ventral prostate tissues. Allograft Inflammatory Factor 1 is expressed by several tumor-associated activated macrophages and microglial cells in rat and human gliomas. There is an evident relationship of AIF1-expressing activated macrophages and microglial cells with tumor malignancy in humans.

Description

AIF1 human recombinant contains a total of 155 amino acids, having a molecular mass of 17.7 kDa. Human AIF1 is fused to a 9 amino acid N-terminal His Tag.

Formulation

Sterile filtered and lyophilized from 0.5 mg/ml in 20 mM Tris buffer and 50 mM NaCl pH 7.5.

Solubility

Add 0.2 ml of deionized water and let the lyophilized pellet dissolve completely.

Stability

Store lyophilized AIF1 at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C. The lyophilized protein remains stable for 24 months when stored at -20°C.

Purity

Greater than 90% as determined by SDS PAGE.

Amino Acid Sequence

MKHHHHHHAS QTRDLQGGKA FGLLKAQQEE RLDEINKQFL DDPKYSSDED LPSKLEGFKE KYMEFDLNGN GDIDIMSLKR
MLEKLGVPKT HLELKKLIGE VSSGSETFS YPDFLRMMLG KRSAILKMIL MYEEKAREKE KPTGPPAKKA ISELP

Applications

WB

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