

AIF1 Human

Description: The AIF1 Human Recombinant contains a total of 155 amino acids having a molecular Mass of 17.7kDa. The Human AIF1 is fused to a 9 amino acid long N-terminal His tag.

Catalog #:CYP5-704

Synonyms: AIF-1, Allograft inflammatory factor 1, Em:AF129756.17, G1, IBA1, Ionized calcium-binding adapter molecule 1, IRT-1, Protein G1, AIF1.

For research use only.

Source: E. Coli.

Amino Acid Sequence: MKHHHHHHASQTRDLQGKAF

Purity: Greater than 90% as determined by SDS PAGE.

Formulation:

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

Stability:

For long term, 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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

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

Introduction:

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- γ 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- γ , IL1 β , 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.

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