

Human AIF-1 (Allograft Inflammatory Factor 1)**Human, recombinant protein expressed in *E. coli*.****Low Endotoxin & Sterilized****Cat# CY-R2468****Amount: 100 µg (1.0 µg/µl)****Lot:****Introduction:**

AIF-1 is a 17kD IFN-gamma inducible Ca²⁺-binding EF-hand protein, associated with chronic inflammatory processes. AIF-1 is constitutively expressed in lymphatic tissue and is up-regulated in monocytes/macrophages under various pathological conditions such as chronic rejection of allografts and in autoimmune lesions. In the brain, a subset of microglial cells constitutively express AIF-1. Increased numbers of AIF-1 immunoreactive macrophage/microglial cells were observed in focal brain infarctions, traumatic brain injury, gliomas, uveitis and in inflammatory lesions of a rat model of autoimmune disease, autoimmune encephalomyelitis and neuritis.

Product Description:

Full length of human AIF-1, containing an N-terminal GST tag, expressed in *E. coli*. and purified by GSH agarose chromatography.

Gene Information:

The gene accession number is NM_032955.

Gene Aliases:

Interferon response transcript 1 (IRT1), Iba1, daintain

Formulation:

Recombinant human AIF-1 is supplied frozen in 2X PBS (2X phosphate buffered saline) containing 50 % glycerol.

Endotoxin Concentration:

< 0.01 EU/µg as determined by Limulus Amebocyte Lysate (LAL) assay

Molecular Weight: 42 kDa

200 kDa-
116 kDa-
97 kDa-
66 kDa-
45 kDa-

31 kDa-
21.5 kDa-
14.4 kDa-
6.5 kDa-

Recombinant human AIF-1 demonstrates approximately 42 kDa band by SDS-PAGE analysis.

Purity is over 90 % estimated by SDS-PAGE analysis.

Storage:

Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, AVOID REPEATED HANDLING AND MULTIPLE FREEZE/THAW CYCLES.

Stability:

Unopened vial at -70 °C, for 1 year after delivery.

References:

1. Autieri, M. V. and Agrawal, N.; IRT-1, a novel interferon-gamma-responsive transcript encoding a growth-suppressing basic leucine zipper protein. *J. Biol. Chem.* **273**: 14731-14737, 1998.
2. Autieri, M. V. et al.; AIF-1 is an actin-polymerizing and Rac1-activating protein that promotes vascular smooth muscle cell migration. *Circ. Res.* **92**: 1107-1114, 2003.
3. Zheng-Wang Chen et al.; Identification, isolation, and characterization of daintain (allograft inflammatory factor 1), a macrophage polypeptide with effects on insulin secretion and abundantly present in the pancreas of prediabetic BB rats. *Proc. Natl. Acad. Sci. USA* **94**: 13879-13884, 1997

Related Products

- * **CircuLex Human AIF1 ELISA Kit : Cat# CY-8084**
- * **Human AIF-1 (Allograft Inflammatory Factor 1): Cat# CY-R2268**
- * **Human AIF-1 (Allograft Inflammatory Factor 1) Low Endotoxin: Cat# CY-R2468**

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