

# Human AIF-1 (Allograft Inflammatory Factor 1)

Human, recombinant protein expressed in *E. coli*.

Cat# CY-R2268

Amount: 100 µg (1.0 µg/µl)

Lot:

**Introduction:**

AIF-1 is a 17kD IFN-gamma inducible Ca<sup>2+</sup>-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 phosphate buffered saline (PBS) containing 50 % glycerol.

**Molecular Weight:** 42 kDa

Recombinant human AIF-1 demonstrates approximately 42 kDa band 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.; 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.; 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, 1996.
3. Autieri, M. V.; Kelemen, S. E.; Wendt, K. W.; AIF-1 is an actin-polymerizing and Rac1-activating protein that promotes vascular smooth muscle cell migration. *Circ. Res.* **92**: 1107-1114, 2003.
4. Zheng-Wang Chen, Bo Ahren, Claes-Göran Östenson, Antonio Cintra, Tomas Bergman, Christer, Möller, Kjell Fuxe, Viktor Mutt, Hans Jörnvall, and Suad Efendic; 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

**PRODUCED BY**

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