# Recombinant Human AIF1 (C-6His)

## Catalog No: CF31

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| **Description** | Recombinant Human Allograft Inflammatory Factor 1 is produced by our E.coli expression system and the target gene encoding Ser2-Pro147 is expressed with a 6His tag at the C-terminus. |
| **Source** | E. coli |
| **Alternative name** | Allograft Inflammatory Factor 1; AIF-1; Ionized Calcium-Binding Adapter Molecule 1; Protein G1; AIF1; G1; IBA1 |
| **Accession No.** | P55008 |
| **Predicted Molecular Weight** | 17.7kDa |
| **AP Molecular Weight** | 16kDa, reducing conditions. |
| **Formulation** | Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. |
| **Reconstitution** | Always centrifuge tubes before opening. Do not mix by vortex or pipetting.<br>It is not recommended to reconstitute to a concentration less than 100μg/ml.<br>Dissolve the lyophilized protein in distilled water.<br>Please aliquot the reconstituted solution to minimize freeze-thaw cycles. |
| **Quality Control** | Purity: Greater than 95% as determined by reducing SDS-PAGE.<br>Endotoxin: Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test. |
| **Shipping** | The product is shipped at ambient temperature.<br>Upon receipt, store it immediately at the temperature listed below. |
| **Storage** | Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.<br>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.<br>Aliquots of reconstituted samples are stable at < -20°C for 3 months. |
| **Background** | Allograft Inflammatory Factor 1 (AIF1) contains two EF-hand domains and exists as a homodimer. AIF1 can be detected in T-lymphocytes and peripheral blood mononuclear cells. AIF1 functions as actin-binding protein that enhances membrane ruffling and RAC activation and can enhance the actin-bundling activity of LCP1. In addition, AIF1 plays a role in RAC signaling and in phagocytosis and may also in macrophage activation and function. AIF1 promotes the proliferation of vascular smooth muscle cells and of T- lymphocytes and plays a role in vascular inflammation. |

**SDS-Page**