

**Synonym**

Iba1,AIF-1,AIF1,G1,IBA1,LCP1

**Source**

Human Iba1, His Tag (IB1-H51H9) is expressed from E.coli cells. It contains AA Met 1 - Pro 147 (Accession # P55008-1).

Predicted N-terminus: Met 1

**Molecular Characterization**

Iba1(Met 1 - Pro 147)  
P55008-1 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 18.6 kDa. The protein migrates as 18-20 kDa under reducing (R) condition (SDS-PAGE).

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

>95% as determined by SDS-PAGE.

**Formulation**

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

Contact us for customized product form or formulation.

**Reconstitution**

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

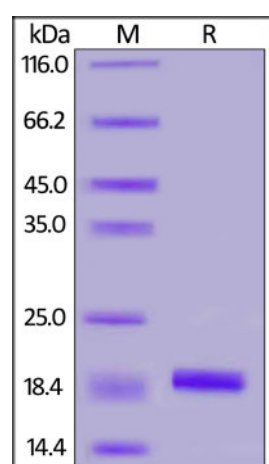
**Storage**

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

**SDS-PAGE**

Human Iba1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

**Background**

Allograft inflammatory factor 1 (AIF1), also known as IBA1, daintain and Protein G1, is an actin-binding protein. Actin-binding protein that enhances membrane ruffling and RAC activation. Enhances the actin-bundling activity of LCP1. Binds calcium. Plays a role in RAC signaling and in phagocytosis. May play a role in macrophage activation and function. Promotes the proliferation of vascular smooth muscle cells and of T-lymphocytes. Enhances lymphocyte migration. Plays a role in vascular inflammation.

**References**

- (1) [Chen X, et al. 2004. Arterioscler Thromb Vasc Biol. 24\(7\):1217-22.](#)
- (2) [Kelemen SE, et al. 2005. Am J Pathol. 167\(2\):619-26.](#)
- (3) [Schulze JO, et al. 2008. FEBS J. 275\(18\):4627-40.](#)

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.