

AIF1 Protein, Human (N-His)

Cat. No.:	HY-P7488A
Synonyms:	AIF-1; Allograft inflammatory factor 1
Species:	Human
Source:	E. coli
Accession:	P55008 (M1-P147)
Gene ID:	199
Molecular Weight:	Approximately 19 KDa

PROPERTIES

AA Sequence	<pre> MSQTRDLQGG KAFGLLKAQQ EERLDEINKQ FLDDPKYSSD EDLPSKLEGF KEKYMFDLN GNGDIDIMSL KRMLEKLGVP KTHLELKKLI GEVSSGSGET FSYPDFLRMM LGKRSAILKM ILMYEEKARE KEKPTGPPAK KAISELP </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 50 mM Tris, 300 mM NaCl, 5% trehalose, 5% mannitol and 0.01% Tween80, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>AIF1, an actin-binding protein, serves as a facilitator of membrane ruffling and RAC activation, and augments the actin-bundling activity of LCP1. This calcium-binding protein plays a crucial role in RAC signaling, phagocytosis, and potentially contributes to macrophage activation and function. AIF1 is implicated in promoting the proliferation of vascular smooth muscle cells and T-lymphocytes, as well as enhancing lymphocyte migration. Additionally, it is involved in vascular inflammation. AIF1 can exist as a homodimer (Potential) or a monomer and interacts with LCP1, indicating its participation in intricate molecular interactions governing cellular processes.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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