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# Recombinant Mouse Interferon alpha 1/IFNA1 protein (His Tag)



Catalog Number: Eg0682

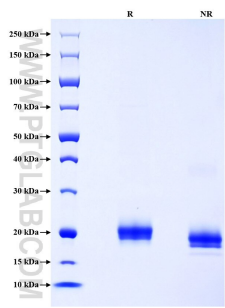
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                            |                 |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------|
| Basic Information        | Species:<br>Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Purity:<br>>90 %, SDS-PAGE | Tag:<br>His Tag |
| Technical Specifications | <p><b>Purity:</b><br/>&gt;90 %, SDS-PAGE</p> <p><b>Endotoxin Level:</b><br/>&lt;0.1 EU/µg protein, LAL method</p> <p><b>Source:</b><br/>HEK293-derived Mouse Interferon alpha 1 protein Gys24-Lys189 (Accession# P01572) with a His tag at the C-terminus.</p> <p><b>GeneID:</b><br/>15962</p> <p><b>Accession:</b><br/>P01572</p> <p><b>Predicted Molecular Mass:</b><br/>20.2 kDa</p> <p><b>SDS-PAGE:</b><br/>18-22 kDa, reducing (R) conditions</p> <p><b>Formulation:</b><br/>Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.</p> |                            |                 |
| Biological Activity      | Not tested                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |                 |
| Storage and Shipping     | <p><b>Storage:</b><br/>It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"><li>• Until expiry date, -20°C to -80°C as lyophilized proteins.</li><li>• 3 months, -20°C to -80°C under sterile conditions after reconstitution.</li></ul> <p><b>Shipping:</b><br/>The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.</p>                                                                                                                                                        |                            |                 |
| Reconstitution           | Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |                 |
| Background               | <p>IFNA1 is a member of the Type I IFN (1) family best known for their antiviral activity. It is a key cytokine regulating the activity of B cells, T-helper cells (Th cells), cDCs and natural killer cells (NK cells). Interferon-alpha induces B cell maturation into plasma cells and immunoglobulin production. Interferon-alpha plays an important role in the pathogenesis of systemic lupus erythematosus (SLE). Interferon-alpha was the first cytokine to show clinical benefit in the treatment of certain types of cancer, including melanoma, chronic myelogenous leukemia, and renal cancer.</p>                         |                            |                 |
| References               | <ol style="list-style-type: none"><li>1. Lande R. et al. (2010). Ann N Y Acad Sci. 1183: 89-103.</li><li>2. Poeck H. et al. (2004). Blood. 103: 3058-64.</li><li>3. Lindau D. et al. (2013). Ann Rheum Dis. Sep 7</li><li>4. Belardelli F. et al. (2002). Cytokine Growth Factor Rev. 13: 119-34.</li><li>5. Brassard DL. et al. (2002). J Leukoc Biol. 71: 565-81.</li></ol>                                                                                                                                                                                                                                                          |                            |                 |
| Synonyms                 | Ifna1, interferon alpha 1, IFNA1, Ifa1, IFN alpha1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                            |                 |

For technical support and original validation data for this product please contact

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Selected Validation Data



Purity of Recombinant Mouse Interferon alpha 1 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.