

For Research Use Only

Recombinant Rat IL-1 beta protein (rFc Tag)



Catalog Number: Eg2582

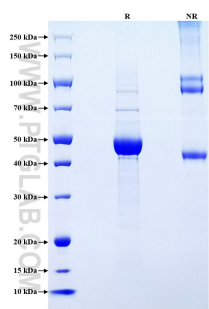
Basic Information	Species: Rat	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications	Purity: >90 %, SDS-PAGE Endotoxin Level: <0.1 EU/µg protein, LAL method Source: HEK293-derived Rat IL-1 beta protein Val117-Ser268 (Accession# Q63264) with a rabbit IgG Fc tag at the C-terminus. GeneID: 24494 Accession: Q63264 Predicted Molecular Mass: 43.6 kDa SDS-PAGE: 43-50 kDa, reducing (R) conditions Formulation: Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.		
Biological Activity	Not tested		
Storage and Shipping	Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. • Until expiry date, -20°C to -80°C as lyophilized proteins. • 3 months, -20°C to -80°C under sterile conditions after reconstitution. Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	Interleukin-1 is a pro-inflammatory cytokine with multiple biological effects. The IL1 gene family encodes three proteins: IL1-α, IL1-β and their naturally occurring inhibitor IL1-RN. Interleukin 1 beta (IL1-β), mainly produced by blood monocytes and tissue macrophages, has been implicated in mediating both acute and chronic inflammation. IL1-β is known to be involved in a variety of cellular activities, including cell proliferation, differentiation and apoptosis. IL1-β is emerging as a key mediator of carcinogenesis that characterizes host-environment interactions.		
References	1. Dinarello CA. et al. (1996). Blood. 87: 2095-147. 2. Bird S. et al. (2002). Cytokine Growth Factor Rev. 13: 483-502. 3. Xu J. et al. (2013). PLoS One. 21;8(5):e63654. 4. McCarty S. (2014). Cardiol Rev. 22: 176-81.		
Synonyms	IL1 beta, IL1b, IL 1 beta, IL-1 beta, IL-1 beta, IL 1 beta, IL1beta		

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

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Selected Validation Data



Purity of Recombinant Rat IL-1 beta 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.