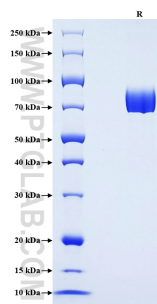


Recombinant Human IL-1R1 protein (rFc Tag)

Catalog Number: Eg3002

Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications	<p>Purity: >90 %, SDS-PAGE</p> <p>Endotoxin Level: <0.1 EU/ µg protein, LAL method</p> <p>Source: HEK293-derived Human IL-1R1 protein Asp21-Thr332 (Accession# P14778) with a rabbit IgG Fc tag at the C-terminus.</p> <p>GeneID: 3554</p> <p>Accession: P14778</p> <p>Predicted Molecular Mass: 61.9 kDa</p> <p>SDS-PAGE: 68-90 kDa, reducing (R) conditions</p> <p>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.</p>		
Biological Activity	Not tested		
Storage and Shipping	<p>Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none">• Until expiry date, -20°C to -80°C as lyophilized proteins.• 3 months, -20°C to -80°C under sterile conditions after reconstitution. <p>Shipping: 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>Interleukin-1 Receptor Type 1 (IL1R1) is a key component of the immune system, particularly in the mediation of inflammatory responses. IL1R1 is the primary receptor through which the pro-inflammatory cytokine interleukin-1 β (IL-1 β) exerts its effects. It plays a central role in the development and regulation of both non-specific defense mechanisms and specific immunity. IL1R1 has three extracellular domains critical for cytokine binding and one intracellular domain responsible for signal transduction. The interaction with IL-1 β leads to the activation of signaling pathways such as p38 α -MAPK and NF κ B, which are essential for inflammation and immune responses.</p>		
References	<ol style="list-style-type: none">1. J V Zhukova. et al. (2024). Cytokine Growth Factor Rev. 80:59-71.2. Charles A Dinarello. et al.(2018). Immunol Rev. 281(1):8-27.3. Lori Broderick. et al. (2022). Nat Rev Rheumatol. 18(8):448-463.4. Theresa V Rohm. et al. (2022). Immunity. 55(1):31-55.		
Synonyms	IL1R1, CD121 antigen-like family member A, CD121A, D2S1473, EC:3.2.2.6		

Selected Validation Data



Purity of Recombinant Human IL-1R1 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.

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

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