Human IL1R1 / CD121a Protein (Fc Tag)

Catalog Number: 10126-H02H

General Information

Gene Name Synonym:
CD121A; D2S1473; IL-1 R1; IL-1R-alpha; IL-1R1; IL1R; IL1RA; P80

Protein Construction:
A DNA sequence encoding the extracellular domain of human IL1R1 (NP_000868.1) (Met 1-Thr 332) was fused with human IgG1 Fc region at the C-terminus.

Source: Human

Expression Host: HEK293 Cells

QC Testing

Purity: > 90 % as determined by SDS-PAGE

Bio Activity:
1. Measured by its binding ability in a functional ELISA. Immobilized human IL1-beta at 20 μg/ml (100 μl/well) can bind human IL1R1 Fc chimera with a linear range of 6.4-160 ng/ml. 2. Measured by its binding ability in a functional ELISA. 3. Immobilized human IL1B-his at 10 μg/mL (100 μl/well) can bind human IL1R1-Fc. The EC50 of human IL1R1-Fc is 0.198 μg/mL. 4. Immobilized human IL1B at 10 μg/mL (100 μl/well) can bind human IL1R1-Fc. The EC50 of human IL1R1-Fc is 0.48 μg/mL. 5. Measured by its ability to bind canine IL1B in a functional ELISA. 6. Measured by its ability to bind mouse IL1B in a functional ELISA.

Endotoxin:< 1.0 EU per μg of the protein as determined by the LAL method

Stability:
Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Leu 18

Molecular Mass:
The recombinant human IL1R1/Fc chimera is a disulfide-linked homodimer. The reduced monomer consists of 553 amino acids after removal of the signal peptide and has a predicted molecular mass of 63 kDa. In SDS-PAGE under reducing conditions, it migrates with an apparent molecular mass of 80-90 kDa due to glycosylation.

Formulation:
Lyophilized from sterile PBS, pH 7.4

Normally 5% - 8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:
Detailed reconstitution instructions are sent along with the product.

References
1. Dale M, et al. (1999). "Interleukin-1 receptor cluster: gene organization of IL1R2, IL1R1, IL1RL2 (IL-1Rtp2), IL1RL1 (T1/ST2), and IL18R1 (IL-1Rp) on human chromosome 2q.". Genomics 57 (1): 177-9.