Recombinant Human IL1R2/CD121b Protein (Fc Tag)

Catalog Number:PKSH031866



Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description			
Synonyms	CD121b;CDw121b;IL-1R-2;IL-1RT-2;IL-1RT2;IL1R2c;IL1RB;Interleukin-1 receptor type 2;IL-1R-2;CD121 antigen-like family member B;CDw121b;IL-1 type II receptor;Interleukin-1 receptor beta;IL-1R-beta;Interleukin-1 receptor type I		
Species	Human		
Expression Host	HEK293 Cells		
Sequence	Met 1-Glu 343		
Accession	NP_004624.1		
Calculated Molecular Weight	64.5 kDa		
Observed molecular weight	70-75 kDa		
Tag	C-hFc		
Bioactivity	Immobilized recombinant human IL1B at 2 μ g/ml (100ul/well) can bind recombinant human IL1R2-Fc with a linear range of 6. 25-400 ng/ml.		
Properties			
Purity	> 95 % as determined by reducing SDS-PAGE.		
Endotoxin	< 1.0 EU per μ g of the protein as determined by the LAL method.		
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.		
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.		
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.		
Reconstitution	Please refer to the printed manual for detailed information.		
Data			

Data

KDa	MK	R	
116	CHORE C	1000	
66.2	-	-	elenc
45.0	-		50.
35.0	-		١.,
25.0	-		abscif
18.4	alence		
14.4	-		

> 95 % as determined by reducing SDS-PAGE.

Background

Interleukin 1 receptor; type II (IL1R2) also known as CD121b (Cluster of Differentiation 121b) is a cytokine receptor that belongs to the interleukin-1 receptor family. This protein binds interleukin alpha (IL1A); interleukin beta (IL1B); and interleukin 1 receptor; type I (IL1R1/IL1RA); and acts as a decoy receptor that inhibits the activity of its ligands. The pleiotropic cytokine IL1 is produced to regulate development and maintenance of the inflammatory responses; and binds

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to specific plasma membrane receptors on cells. Two distinct types of IL1 receptors which are able to bind IL1 specifically have been identified; designated as IL1RI (IL1RA) and IL1RII (IL1RB). IL1R1 contributes to IL-1 signaling; whereas the IL-1R2/CD121b has no signaling property and acts as a decoy for IL-1. IL-1R2/CD121b structurally consisting of a ligand binding portion comprised of three Ig-like domains; a single transmembrane region; and a short cytoplasmic domain; is expressed in a variety of cell types including B lymphocytes; neutrophils; monocytes; large granular leukocytes and endothelial cells. Interleukin 4 (IL4) is reported to antagonize the activity of interleukin 1 by inducing the expression and release of this cytokine.

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