

IL-1R-1/CD121a (C-Fc), Human, Recombinant

Cat. No. : PCK145

General Information

Synonyms	Interleukin-1 Receptor type 1;IL-1R-1;IL-1RT-1;IL-1RT1;CD121 antigen-like family member A;Interleukin-1 Receptor alpha;IL-1R-alpha;p80;CD121a
Species	Human
Expression host	Human Cells
Sequence	Leu18-Thr332
Accession	P14778
Tag	C-Fc
Mol mass	62.9 kDa
Expiration date	12 months

Product feature

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin (EU/μg)	< 0.1
Storage	Lyophilized protein should be stored at -5~-20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at -5~-20°C for 3 months.
Shipping	Ice bag
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μg/mL. Dissolve the lyophilized protein in sterile water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Background

Interleukin 1 Receptor, type I (IL-1R1) is an Interleukin Receptor that belongs to the Interleukin-1 Receptor family. IL-1R1 is an 80 kDa transmembrane Protein that is expressed predominantly by T cells, fibroblasts, and endothelial cells. This gene along with IL1R2, IL1RL2, and IL1RL1 form a Cytokine Receptor gene cluster in a region mapped to chromosome 2q12. IL-1R1 is an important mediator involved in many Cytokine induced immune and inflammatory responses. It binds to Interleukin-1 associates with the coreceptor IL1RAP to form the high affinity Interleukin-1 Receptor complex which mediates Interleukin-1-dependent activation of NF-kappa-B, MAPK and other pathways. The signaling involves the recruitment of adapter molecules such as TOLLIP, MYD88, and IRAK1 or IRAK2 via the respective TIR domains of the Receptor/coReceptor subunits. It also binds Ligands with comparable affinity and binding of antagonist IL1RN prevents association with IL1RAP to form a signaling complex. An IL1 Receptor accessory Protein that can heterodimerize with the Type I Receptor in the presence of IL1α or IL1β but not IL1ra, was identified. Recombinant IL1 soluble Receptor Type I is a potent antagonist of IL1 action.

SDS-PAGE

