

## IL-1RAP/IL-1RAcP Protein, Rat, Recombinant (His & Myc)

### General Information

Synonyms:	IL-1RAcP;IL-1 receptor accessory protein;Interleukin-1 receptor accessory protein;Il1rap
Protein Construction:	21-367 aa
Species:	Rat
Expression Host:	E. coli
Accession:	Q63621
Molecular Weight:	47.5 kDa (predicted)
AA Sequence:	SERCDDWGLDTMRQIQVFEDEPARIKCPLFEHFLKYNYSTAHSSGLTLIWYWTRQDRDLEEPINFRLPENRISK EKDVLWFRPTLLNDTGNYTCMLRNTTYCSKVAFFLEVQKDCSCFNPMRLPVHRLYIEQGIHNITCPNVDGYF PSSVKPSVTWYKGCIEIVNFHNVQPKGMNLSFFIPLVSNNGNYTCVVTYLENGRLFHLTRTMTVKVVGSPKDA VPPHIYSPNDRVVYEKEPGEELVIPCKVYFSFIMDSHNEIWWTIDGKKPDDVPVDITIIESVSYSSTEDETRTQILS IKKVTPEDLKRNYVCHARNAEGEAEQAQAKVKQKVIPPRYTVELACFGAT

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

## A DRUG SCREENING EXPERT

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Coreceptor for IL1RL2 in the IL-36 signaling system. Coreceptor with IL1R1 in the IL-1 signaling system. Associates with IL1R1 bound to IL1B to form the high affinity interleukin-1 receptor complex which mediates interleukin-1-dependent activation of NF-kappa-B and other pathways. 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. Recruits TOLLIP to the signaling complex. Does not bind to interleukin-1 alone; binding of IL1RN to IL1R1, prevents its association with IL1R1 to form a signaling complex. The cellular response is modulated through a non-signaling association with the membrane IL1R2 decoy receptor. Coreceptor for IL1RL1 in the IL-33 signaling system. Can bidirectionally induce pre- and postsynaptic differentiation of neurons by trans-synaptically binding to PTPRD. May play a role in IL1B-mediated costimulation of IFNG production from T-helper 1 (Th1) cells.

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