

## IL1R1 Protein, Human (Cell-Free, His, SUMO, Myc)

<b>Cat. No.:</b>	HY-P702336
<b>Synonyms:</b>	Interleukin-1 receptor type 1; CD121 antigen-like family member A; Interleukin-1 receptor alpha; IL-1R-alpha; Interleukin-1 receptor type I; p80
<b>Species:</b>	Human
<b>Source:</b>	E. coli Cell-free
<b>Accession:</b>	P14778 (L18-G569)
<b>Gene ID:</b>	3554
<b>Molecular Weight:</b>	83.5 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> LEADKCKERE   EKIILVSSAN   EIDVRPCPLN   PNEHKGTITW YKDDSKTPVS   TEQASRIHQH   KEKLWFVPAK   VEDSGHY YCV VRNSSYCLRI   KISAKFVENE   PNLCYNAQAI   FKQKLPVAGD GGLVCPYMEF   FKNENNELPK   LQWYKDCKPL   LLDNIHFSGV KDRLIVMNVA   EKHRGNYTCH   ASYTYLGKQY   PITRVIEFIT LEENKPTRPV   IVSPANETME   VDLGSQIQLI   CNVTGQLSDI AYWKWNGSVI   DEDDPVLGED   YYSVENPANK   RRSTLITVLN ISEIESRFYK   HPFTCFAKNT   HGIDAAYIQL   IYPVTNFQKH MIGICVTLTV   IIVCSVFIYK   IFKIDIVLWY   RDSCYDFLPI KASDGKTYDA   YILYPKTVGE   GSTSDCDIFV   FKVLPEVLEK QCGYKLFYIG   RDDYVGEDIV   EVINENVKKS   RRLIIILVRE TSGFSQLGGS   SEEQIAMYNA   LVQDGIKVV L   LELEKIQDYE KMPESIKFIK   QKHGAIRWSG   DFTQGPQSAK   TRFWKNVRYH MPVQRRSPSS   KHQLLSPATK   EKLQREAHVP   LG           </pre>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

## DESCRIPTION

### Background

IL1R1, a receptor for interleukin-1A (IL1A), interleukin-1B (IL1B), and interleukin-1 receptor antagonist (IL1RN), forms a high-affinity complex with the coreceptor IL1RAP upon ligand binding. This complex mediates interleukin-1-dependent activation of signaling pathways such as NF-kappa-B and MAPK. The signaling cascade involves the recruitment of adapter molecules, including TOLLIP, MYD88, and IRAK1 or IRAK2, through the TIR domains of the receptor/coreceptor subunits. IL1R1 binds ligands with comparable affinity, and the interaction with antagonist IL1RN prevents the association with IL1RAP, thus inhibiting the formation of a signaling complex. Furthermore, IL1R1 is implicated in IL1B-mediated costimulation of IFNG production from T-helper 1 (Th1) cells.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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