

## IL-5 R $\alpha$ , Human

**Cat. No.:** Z03126-1

**Size:** 1.0 mg

**Synonyms:** IL-5RA, CD125

### Description:

Interleukin-5 Receptor Alpha (IL-5RA), also known as CD125, belongs to the Type 5 subfamily in the type I cytokine receptor family. It is composed of a ligand-specific alpha subunit and a signal-transducing beta subunit shared by the receptors for IL-3 and GM-CSF. IL-5RA is mainly expressed on eosinophils and basophils, and plays important roles in the immunobiology of these cell types. It is reported that when stimulated by IL-5, eosinophils down-regulate surface IL-5RA expression to attenuate their IL-5 responsiveness. Elevated IL-5 production may induce immune cell infiltration which leads to allergic inflammation. IL-5RA has also been reported to promote the differentiation of basophils and B cells.

### Amino Acid Sequence:

```
00001 DLLPDEKISL LPPVNFITKV TGLAQVLLQW KPNPDQEQRN
00041 VNLEYQVKIN APKEDDYETR ITESKCVTIL HKGFSASVRT
00081 ILQNDHSLLA SSWASAEHLA PPGSPGTSIV NLTCTTNTTE
00121 DNYSRLRSYQ VSLHCTWLVG TDAPEDTQYF LYYRYGSWTE
00161 ECQEYSKDTL GRNIACWFPR TFI LSKGRDW LAVLVNGSSK
00201 HSAIRPFQDL FALHAIDQIN PPLNVTAIEE GTRLSIQWEK
00241 PVSAPPIHCF DYEVKIHNTR NGYLQIEKLM TNAFISIIDD
00281 LSKYDVQVRA AVSSMCREAG LWSEWSQPIY VGND E
```

**Source:** CHO

**Species:** Human

**Biological Activity:** ED<sub>50</sub> <0.2 ng/ml, measured in a cell proliferation assay using TF-1 cells in the presence of 1 ng/ml human IL-5.

**Molecular Weight:** 53-56 kDa, observed by reducing SDS-PAGE.

**Formulation:** Lyophilized after extensive dialysis against PBS.

**Reconstitution:** Reconstituted in ddH<sub>2</sub>O or PBS at 100 µg/ml.

**Purity:** > 95% as analyzed by SDS-PAGE and HPLC.

**Endotoxin Level:** < 0.2 EU/µg, determined by LAL method.

**Storage:** Lyophilized recombinant Human Interleukin-5 Receptor Alpha remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Human Interleukin-5 Receptor Alpha should be stable up to 1 week at 4°C or up to 2 months at -20°C.