

## DATASHEET

Version 20181206

### IL-6R, Human

**Cat. No.:** Z03136-50

**Size:** 50.0 ug

**Synonyms:** IL-6RA, IL-6R1, CD126

#### Description:

Interleukin-6 Receptor Alpha, also known as IL-6RA, IL-6R1 and CD126, belongs to the type I cytokine receptor family. It is mainly expressed on T cells, fibroblasts and macrophages. IL-6RA couples with gp130 to form the IL-6 receptor; IL-6RA binds specifically to IL-6 and depends on gp130 to transmit signals. IL-6RA dysfunction has been correlated with the pathogenesis of many diseases, such as multiple myeloma, autoimmune diseases and prostate cancer. Soluble IL-6RA, which consists of only the extracellular domain of IL-6RA, acts as an agonist of IL-6 activity.

#### Amino Acid Sequence:

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00001 LAPRRCPAQE VARGVLTSLP GDSVTLTCPG VEPEDNATVH
00041 WVLKPAAGS HPSRWAGMGR RLLRSVQLH DSGNYSCYRA
00081 GRPAGTVHLL VDVPEEPQL SCFRKSPLSN VVCEWGPRST
00121 PSLTTKAVLL VRKFNSPA EDFQPCQYSQ ESQKFSCQLA
00161 VPEGDSSFYI VSMCVASSVG SKFSKTQTFQ GCGILQPDPP
00201 ANITVTAVAR NPRWLSVTWQ DPHSWNSSFY RLFELRYRA
00241 ERSKTFTTWM VKDLQHHCVI HDAWSGLRHV VQLRAQEEFG
00281 QGEWSEWSPE AMGTPWTESR SPPAENEVST PMQALTTNKD
00321 DDNILFRDSA NATSLPVQDS SSVPLP
```

**Source:** CHO

**Species:** Human

**Biological Activity:** ED<sub>50</sub> < 0.2 µg/ml, measured in a cell proliferation assay using M1 cells in the presence of 10 ng/ml human IL-6.

**Molecular Weight:** 54-56 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-6 Receptor Alpha remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Human Interleukin-6 Receptor Alpha should be stable up to 1 week at 4°C or up to 2 months at -20°C.