

Recombinant Human Interleukin-6 Receptor alpha (Sf9 insect cells-expressed)

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| Cat. No.: | HY-P7377 |
| Synonyms: | rHuIL-6 Receptor α ; gp80; CD126 |
| Species: | Human |
| Source: | Sf9 insect cells |
| Accession: | P08887 |
| Gene ID: | 3570 |
| Molecular Weight: | Approximately 50 kDa |

PROPERTIES

AA Sequence

| | | | |
|-------------|------------|------------|------------|
| HHHHHHDDDD | KLAPRRCPAQ | EVARGVLTSL | PGDSVTLTCP |
| GVEPEDNATV | HWVLRKPAAG | SHPSRWAGMG | RRLLLRSVQL |
| HDSGNYSCYR | AGRPAGTVHL | LVDVPPEEPQ | LSCFRKSPLS |
| NVVC EWGPRS | TPSLTTKAVL | LVRKFQNSPA | EDFQEPQYS |
| QESQKFSCQL | AVPEGDSSFY | IVSMCVASSV | GSKFSKTQTF |
| QGCGILQPDP | PANITVTAVA | RNPRWLSVTW | QDPHSWNSSF |
| YRLRFELRYR | AERSKTFTTW | MVKDLQHHCV | IHDAWSGLRH |
| VVQLRAQEEF | GQGEWSEWSP | EAMGTPWTES | RSPPAENEVS |
| TPMQALTTNK | DDDNILFRDS | ANATSLPVQD | |

Biological Activity The ED₅₀ is <50 ng/mL as measured by M1 cells, corresponding to a specific activity of >2 × 10⁴ units/mg.

Appearance Lyophilized powder.

Formulation Lyophilized after extensive dialysis against PBS.

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

Reconstitution Reconstitute the lyophilized recombinant Human Interleukin-6 Receptor alpha (Sf9 insect cells-expressed) (rHuIL-6 Receptor α) to 100 μg/mL using ddH₂O.

Storage & Stability Lyophilized recombinant Human Interleukin-6 Receptor alpha (Sf9 insect cells-expressed) (rHuIL-6 Receptor α) is stored at -20°C. After reconstitution, it is stable at 4°C for 2 weeks or -20°C for longer. It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

It is found that soluble IL-6 receptor alpha-subunit (IL-6Ralpha), with their constitutive IL-6 synthesis, stimulated endothelial cells to synthesize E-selectin, intracellular adhesion molecule-1, vascular cellular adhesion molecule-1, IL-6, and IL-8, and to bind neutrophils. Neutrophils express significant amounts of IL-6Ralpha and upon stimulation shed it: this material activates endothelial cells through a newly constituted IL-6 receptor. Retrograde signaling from PMN activated in the extravascular compartment to surrounding endothelial cells will recruit more and a wider variety of leukocytes. The limiting signal is a soluble receptor, not a cytokine^[1].

REFERENCES

[1]. Modur V, et al. Retrograde inflammatory signaling from neutrophils to endothelial cells by soluble interleukin-6 receptor alpha. J Clin Invest. 1997 Dec 1;100(11):2752-6.

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

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