

IL-6R alpha Protein, Human (Sf9)

Cat. No.:	HY-P7377
Synonyms:	rHuIL-6 Receptor α ; gp80; CD126
Species:	Human
Source:	Sf9 insect cells
Accession:	P08887 (L20-D358)
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	EDFQEPCQYS
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 It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH₂O.

Storage & Stability Stored at -20°C. After reconstitution, it is stable at 4°C for 1 week 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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA