Product Data Sheet

IL-6 Protein, Mouse

Cat. No.: HY-P7063

Synonyms: rMuIL-6; BSF-2; CDF; Hybridoma growth factor; IFN-beta-2

Species: Mouse
Source: E. coli

Accession: P08505 (F25-T211)

Gene ID: 16193

Molecular Weight: Approximately 21.7 kDa

PROPERTIES

AA Sequence	FPTSQVRRGD FTEDTTPNRP VYTTSQVGGL ITHVLWEIVE MRKELCNGNS DCMNNDDALA ENNLKLPEIQ RNDGCYQTGY NQEICLLKIS SGLLEYHSYL EYMKNNLKDN KKDKARVLQR DTETLIHIFN QEVKDLHKIV LPTPISNALL TDKLESQKEW LRTKTIQFIL KSLEEFLKVT LRSTRQT
Biological Activity	1.The ED ₅₀ is <0.02 ng/mL as measured by murine 7TD1 cells, corresponding to a specific activity of >5 × 10 ⁷ units/mg. 2.Immobilized Mouse IL-6, His Tag at 5 μg/mL (100 μL/well) can bind Biotinylated Mouse IL-6 R alpha that produces 50% of the optimal binding response is found to be approximately ≤155.6 ng/mL.
Appearance	Lyophilized powder
Formulation	Lyophilized after extensive dialysis against PBS, pH 7.4 or 50 mM Tris-HCL, 200 mM NaCl, 500 mM arginine, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

Interleukin-6 (IL-6) is one of the most important mediators of the acute phase reaction in liver^[1]. Interleukin 6 (IL-6), promptly and transiently produced in response to infections and tissue injuries, contributes to host defense through the stimulation of acute phase responses, hematopoiesis, and immune reactions. IL-6 promotes specific differentiation of na"0 is a contribute of the most important mediators of the acute phase reaction in liver^[1]. Interleukin 6 (IL-6), promptly and transiently produced in response to infections and tissue injuries, contributes to host defense through the stimulation of acute phase responses, hematopoiesis, and immune reactions. IL-6 promotes specific differentiation of na"0 is a contribute of the most important mediators of the acute phase reaction in liver^[1].

CD4⁺ T cells, thus performing an important function in the linking of innate to acquired immune response. IL-6, in combination with transforming growth factor (TGF)- β , is indispensable for Th17 differentiation from na

ive CD4⁺ T cells, but that IL-6 also inhibits TGF- β -induced Treg differentiation [2].

REFERENCES

- [1]. Frorath B, et al. Production of recombinant rat interleukin-6 in Escherichia coli using a novel highly efficient expression vector pGEX-3T. Send to
- $[2]. Tanaka\ T, et\ al.\ IL-6\ in\ inflammation, immunity, and\ disease.\ Cold\ Spring\ Harb\ Perspect\ Biol.\ 2014\ Sep\ 4;6(10):a016295.$

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

Page 2 of 2 www.MedChemExpress.com