

IL-6 Protein, Rat (HEK293)

Cat. No.:	HY-P7103A
Synonyms:	rRtIL-6; BSF-2; CDF; Hybridoma growth factor; IFN-beta-2
Species:	Rat
Source:	HEK 293
Accession:	P20607 (F25-T211)
Gene ID:	24498
Molecular Weight:	21-26 kDa

PROPERTIES

AA Sequence	<pre> F P T S Q V R R G D F T E D T T H N R P V Y T T S Q V G G L I T Y V L R E I L E M R K E L C N G N S D C M N S D D A L S E N N L K L P E I Q R N D G C F Q T G Y N Q E I C L L K I C S G L L E F R F Y L E F V K N N L Q D N K K D K A R V I Q S N T E T L V H I F K Q E I K D S Y K I V L P T P T S N A L L M E K L E S Q K E W L R T K T I Q L I L K A L E E F L K V T M R S T R Q T </pre>
Biological Activity	The ED ₅₀ is <3 pg/mL as measured by 7TD1 Cells.
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 ddH ₂ O or PBS.
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	<p>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 naïve 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 naïve CD4⁺ T cells, but that IL-6 also inhibits TGF-β-induced Treg differentiation^[2].</p>
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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.
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Caution: Product has not been fully validated for medical applications. For research use only.

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