

## IL-12 Protein, Rat (CHO)

Cat. No.:	HY-P7370
Synonyms:	rRtIL-12; CLMF; IL-12A; IL-12B
Species:	Rat
Source:	CHO
Accession:	Q9R103 (R23-S215)&E9PU71 (M23-S335)
Gene ID:	84405&64546
Molecular Weight:	26-28 kDa (p35) and 42-45 kDa (p40)

### PROPERTIES

#### AA Sequence

p 3 5 :

R V I P V S G P A K	C L N Q S Q N L L K	T T D D M V R T A R	E K L K H Y S C T A
G D I D H E D I T R	D K T S T L E A C L	P L E L H K N E S C	L A T K E T S S I I
R G S C L P P Q K T	S L M M T L C L G S	I Y E D L K M Y Q S	E F Q A I N A A L Q
S H N H Q Q I T L D	R N M L M A I D E L	M R S L N H S G E T	L H Q K A P M G E A
D P Y R V K M K L C	I L L H A F S T R V	M T I N R V M N Y L	S S S H H H H H H

p 4 0 :

M W E L E K D V Y V	V E V D W R P D A P	G E T V T L T C D S	P E E D D I T W T S
D Q R R G V I G S G	K T L T I T V R E F	L D A G Q Y T C H R	G G E T L S H S H L
L L H K K E N G I W	S T E I L K N F K N	K T F L K C E A P N	Y S G R F T C S W L
V H R N T D L K F N	I K S S S S S P E S	R A V T C G R A S L	S A E K V T L N Q R
D Y E K Y S V A C Q	E D V T C P T A E E	T L P I E L V V E A	Q Q Q N K Y E N Y S
T S F F I R D I I K	P D P P K N L Q V K	P L K N S Q V E V S	W E Y P D S W S T P
H S Y F S L K F F V	R I Q R K K E K T K	E T E E E C N Q K G	A F L V E K T S A E
V Q C K G A N I C V	Q A Q D R Y Y N S S	C S K W T C V P C R	G R S

<b>Biological Activity</b>	The ED <sub>50</sub> is <0.1 ng/mL as measured by 2D6 cells.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS.
<b>Endotoxin Level</b>	<0.2 EU/μg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

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## DESCRIPTION

### Background

Interleukin-12 is a heterodimeric inflammatory cytokine. Interleukin-12 is a potent cytokine that plays an important role in regulating the response of the adaptive immune system by driving the differentiation of naive T-cells to Th1 cells, which is important for protection against intracellular pathogens<sup>[1]</sup>.

## REFERENCES

[1]. Issaranggun Na Ayuthaya B, et al. The immunopathogenic and immunomodulatory effects of interleukin-12 in periodontal disease. *Eur J Oral Sci.* 2018 Apr;126(2):75-83.

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

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