

IL-11 Protein, Mouse (HEK293)

Cat. No.:	HY-P7075A
Synonyms:	rMuIL-11; Adipogenesis inhibitory factor; AGIF
Species:	Mouse
Source:	HEK293
Accession:	P47873 (G23-L199)
Gene ID:	16156
Molecular Weight:	21-23 kDa

PROPERTIES

AA Sequence	<p>G P P A G S P R V S S D P R A D L D S A V L L T R S L L A D T R Q L A A Q M R D</p> <p>K F P A D G D H S L D S L P T L A M S A G T L G S L Q L P G V L T R L R V D L M</p> <p>S Y L R H V Q W L R R A G G P S L K T L E P E L G A L Q A R L E R L L R R L Q L</p> <p>L M S R L A L P Q A A P D Q P V I P L G P P A S A W G S I R A A H A I L G G L H</p> <p>L T L D W A V R G L L L L K T R L</p>
Biological Activity	The ED ₅₀ is <3 ng/mL as measured by T11 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. 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 from date of receipt. 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	<p>Interleukin-11 (IL-11) is a pleiotropic cytokine that regulates cell cycle, invasion, and migration in numerous cell types, all roles critical to placental development. IL-11 is a member of the IL-6-type cytokines and signals via the IL11 receptor (R) α chain and signal transducer gp130 to activate the Janus kinase (JAK)/Signal transducers and activators of transcription (STAT)3 pathway in human endometrium and primary human extravillous trophoblast (EVT). IL-11 is required for decidualization in humans and mice. IL11 levels are elevated in preeclampsia (PE) decidual tissue. L-11 has multiple effects</p>
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on both hematopoietic and nonhematopoietic cells. Many of the biological effects described for IL-11 overlap those for IL-6. In vitro, IL-11 can synergize with IL-3, IL-4 and SCF to shorten the G₀ period of early hematopoietic progenitors. IL-11 also enhances the IL-3-dependent megakaryocyte colony formation. IL-11 has been found to stimulate the T cell dependent development of specific immunoglobulin-secreting B cell^[1].

REFERENCES

[1]. Winship AL, et al. Interleukin-11 alters placentation and causes preeclampsia features in mice. Proc Natl Acad Sci U S A. 2015 Dec 29;112(52):15928-33.

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

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