

IL-1 beta Protein, Porcine

Cat. No.:	HY-P7206
Synonyms:	rPoIL-1 β ; IL1B
Species:	Porcine
Source:	E. coli
Accession:	P26889 (A115-P267)
Gene ID:	397122
Molecular Weight:	Approximately 17.7 kDa

PROPERTIES

AA Sequence	<p> M A N V Q S M E C K L Q D K D H K S L V L A G P H M L K A L H L L T G D L K R E V V F C M S F V Q G D D S N N K I P V T L G I K G K N L Y L S C V M K D N T P T L Q L E D I D P K R Y P K R D M E K R F V F Y K T E I K N R V E F E S A L Y P N W Y I S T S Q A E Q K P V F L G N S K G R Q D I T D F T M E V L S P </p>
Biological Activity	The ED ₅₀ is <1 ng/mL as measured by mouse D10S cells, corresponding to a specific activity of >1.0 × 10 ⁶ units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against PBS.
Endotoxin Level	<0.2 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/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-1 beta (IL-1 β) is one of the major inflammatory cytokines found in atherosclerotic lesions^[1]. Interleukin-1β (IL-1 β) acts throughout the IL-1β system, which contains IL-1β and the IL-1β receptor (IL-1R), accessory protein (IL-1RacP), and receptor antagonist (IL-1Ra). In pigs, the expression of the members of the IL-1β system was documented in uterine tissues during the oestrous cycle and early pregnancy, as well as in embryos harvested during the peri-implantation period^[2]. Interleukin-1 beta regulates cell proliferation and activity of extracellular matrix remodelling enzymes in cultured primary pig heart cells^[3].</p>
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REFERENCES

- [1]. Shimokawa H, et al. Chronic treatment with interleukin-1 beta induces coronary intimal lesions and vasospastic responses in pigs in vivo. The role of platelet-derived growth factor. *J Clin Invest.* 1996 Feb 1;97(3):769-76.
- [2]. Martyniak M, et al. Interleukin-1 β system in the oviducts of pigs during the oestrous cycle and early pregnancy. *Theriogenology.* 2017 Jul 1;96:31-41.
- [3]. Zitta K, et al. Interleukin-1beta regulates cell proliferation and activity of extracellular matrix remodelling enzymes in cultured primary pig heart cells. *Biochem Biophys Res Commun.* 2010 Sep 3;399(4):542-7.
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Caution: Product has not been fully validated for medical applications. For research use only.

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