

Active GMP Recombinant Porcine IL1A Protein, His-Tagged

Cat. No. IL1A-01P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GMP Recombinant Porcine IL1A Protein, His-Tagged was expressed in Escherichia coli cell-derived in an animal component free process under cGMP guidelines.
Species	Porcine
Source	E.coli
Description	Interleukin 1 alpha (IL-1) also known as hematopoietin 1 is a cytokine of the interleukin 1 family that in humans is encoded by the IL1A gene. IL-1 is produced mainly by activated macrophages, as well as neutrophils, epithelial cells, and endothelial cells. It possesses metabolic, physiological, haematopoietic activities, and plays one of the central roles in the regulation of the immune responses. It binds to the interleukin-1 receptor. It is on the pathway that activates tumor necrosis factor-alpha.
Form	Lyophilized
Bio-activity	Measure by its ability to induce D10.G4.1 cells proliferation. The ED50 for this effect is <50 pg/mL.
AA Sequence	MSATYSFQSNMKYNFMRVINHQCILNDARNQSIIRDPSGQYLMAAVLNNLDEAVKFD MAAYTSNDDSQLPVTLRISETRLVSAQNEDEPVLLKELPETPKTIKDETSLLFFWEK HGNMDYFKSAAHPKLFIA TRQEKL VHMAPGLPSVTDFQILENQS with polyhistidine tag at the C-terminus

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Endotoxin	<0.1 EU per 1 µg of the protein by the LAL method.
Purity	>98% as determined by SDS-PAGE. Ni-NTA chromatography
Notes	Please use within one month after protein reconstitution.
Storage	Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.
Storage Buffer	The protein was lyophilized from a solution containing 1X PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H2O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

GENE INFORMATION

Gene Name	IL1A interleukin 1 alpha [<i>Sus scrofa</i> (pig)]
Official Symbol	IL1A
Synonyms	IL-1alpha
Gene ID	397094
mRNA Refseq	NM_214029.1
Protein Refseq	NP_999194.1
UniProt ID	P18430

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