

## Product datasheet for **AR09045PU-S**

### Interleukin-1 alpha / IL-1A (113-271, His-tag) Human Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Interleukin-1 alpha / IL-1A (113-271, His-tag) human recombinant protein, 0.25 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	<u>MRGSHHHHHH</u> GMASMTGGQQ MGRDLYDDDD KDRWGSMSA PFSFLSNVKY NFMRIIKYEF ILNDALNQSI IRANDQYLTA AALHNLDEAV KFDMGAYKSS KDDAKITVIL RISKTLQYVT AQDEDQPVLL KEMPEIPKTI TGSETNLLFF WETHGKKNYF TSVAHNPLFI ATKQDYWWCL AGGPPSITDF QILENQA
Tag:	His-tag
Predicted MW:	22.4 kDa
Concentration:	lot specific
Purity:	>90% > 90% by SDS PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl pH 7.5, 10% glycerol
Preparation:	Liquid purified protein
Protein Description:	Recombinant IL-1a protein, fused to His-tag, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<u>NP_000566</u>
Locus ID:	3552
UniProt ID:	<u>P01583</u>
Cytogenetics:	2q14.1
Synonyms:	IL-1 alpha; IL-1A; IL1; IL1-ALPHA; IL1F1



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**Summary:**

The protein encoded by this gene is a member of the interleukin 1 cytokine family. This cytokine is a pleiotropic cytokine involved in various immune responses, inflammatory processes, and hematopoiesis. This cytokine is produced by monocytes and macrophages as a proprotein, which is proteolytically processed and released in response to cell injury, and thus induces apoptosis. This gene and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2. It has been suggested that the polymorphism of these genes is associated with rheumatoid arthritis and Alzheimer's disease. [provided by RefSeq, Jul 2008]

**Protein Families:**

Druggable Genome, Secreted Protein

**Protein Pathways:**

Apoptosis, Cytokine-cytokine receptor interaction, Graft-versus-host disease, Hematopoietic cell lineage, MAPK signaling pathway, Prion diseases, Type I diabetes mellitus

**Product images:**