

Product datasheet for **TP723707**

IL1 alpha (IL1A) (NM_000575) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human interleukin 1, alpha (IL1A)
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	Human IL-1alpha;, the region of Ser113-Ala271, from gene Accession# NM_000575
Tag:	Tag Free
Predicted MW:	18 Da
Concentration:	lot specific
Purity:	Purity is >98%, as determined by Coomassie stained SDS-PAGE.
Buffer:	10 mM NaH ₂ PO ₄ , 150 mM NaCl, pH 7.2
Bioactivity:	The ED50 is 5 - 15 pg/ml, corresponding to a specific activity of 0.6-2.0 x 10 ⁷ units/mg, determined by the dose dependent stimulation of D10 cells proliferation.
Endotoxin:	Less than 0.01 ng per ug protein as determined by the LAL method
Storage:	Store at -80°C.
Stability:	Unopened vial can be stored between 2°C and 8°C for up to 2 weeks, at -20°C for up to 6 months, or at -70°C or below until the expiration date. Aliquots can be stored between 2°C and 8°C for up to one week and stored at -20°C or colder for up to 3 months. Avoid repeated freeze/thaw cycles.
RefSeq:	NP_000566
Locus ID:	3552
UniProt ID:	P01583
RefSeq Size:	2943
Cytogenetics:	2q14.1
RefSeq ORF:	813
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: