

Recombinant Human IL1A protein, GST-tagged

Cat. No. IL1A-14167H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL1A protein (113-271 aa) fused to GST-tag and was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	159
Description	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.
Form	The purified protein was Lyophilized from sterile PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.). 5% trehalose and 5% mannitol are added as protectants before lyophilization.
Molecular Mass	44 kDa
AA Sequence	SAPFSFLSNVKYNFMRIIKYEFILNDALNQSIIIRANDQYLTAALHNLDEAVKFDMGAY

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KSSKDDAKITVILRISKTKQLYVTAQDEDQPVLLKEMPEIPKTITGSETNLLFFWETHGT
KNYFTSVAHPNLFIA TKQDYWVCLAGGPPSITDFQILENQA

Purity 90%, by SDS-PAGE with Coomassie Brilliant Blue staining.

Storage Samples are stable for up to twelve months from date of receipt at -20 centigrade to -80 centigrade
Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution Reconstitute at 0.25 g/μl in 200 μl sterile water for short-term storage.
Reconstitution with 200 μl 50% glycerol solution is recommended for longer term storage.
If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used).
Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.

GENE INFORMATION

Gene Name IL1A

Official Symbol IL1A

Synonyms IL1; IL-1A; IL1F1; IL1-ALPHA; IL-1 alpha

Gene ID 3552

mRNA Refseq NM_000575.5

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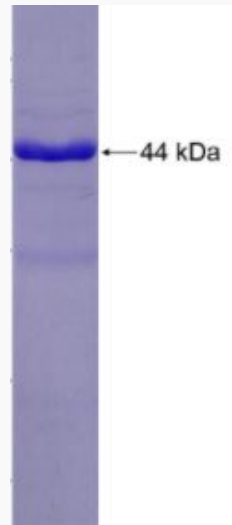
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Protein Refseq NP_000566.3

MIM 147760

UniProt ID P01583

**SDS-PAGE of IL1A-
14167H**



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