

Interleukin 1 Alpha (IL1a) Active Protein | IL1a active protein

Active Interleukin 1 Alpha (IL1a)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA148220	E Coli	Human	Activity Assay, Cell Culture

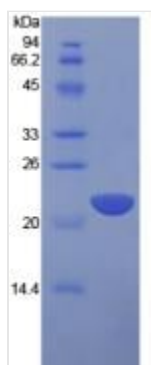
PRODUCT SYNONYMS

Interleukin 1 Alpha (IL1a); Active Interleukin 1 Alpha (IL1a); IL1-A; IL-1alpha; IL1F1; Preinterleukin 1 Alpha; Hematopoietin-1; Pro-Interleukin-1-Alpha; Interleukin-1 Family Member 1; IL1a active protein

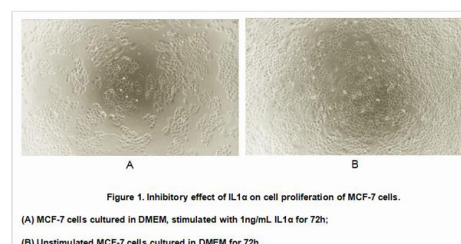
PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Human
Purity/Purification	> 97%
Form/Format	Freeze-dried powder
Sequence Length	271
Applicable Applications for IL1a active protein	Activity Assay, Cell Culture
Tag	N-terminal His Tag
Buffer Formulation	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Fragment	Ser113~Ala271
Isoelectric Point	6.5

IMAGES



SDS-PAGE



Activity

IL1alpha (Interleukin-1 alpha) is a member of the interleukin 1 cytokine family. 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 cell apoptosis. It is reported that exposure of MCF-7 cells to certain concentration of IL1alpha results in inhibition of cell growth. Thus, an cell proliferation assay of MCF-7 was conducted with the addition of IL1alpha. MCF-7 cells were seeded overnight at a density of 5,000 cells/well, and then treated with or without various concentrations of IL1alpha for 72h, then cells were observed by inverted microscope and cell viability was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10uL of CCK-8 solution was added to each well of the plate, then measure the absorbance at 450nm using a microplate reader after incubating the plate for 1-4 hours in at 37 degree C. Inhibition of MCF-7 cell proliferation after incubation with IL1alpha for 72h observed by inverted microscope was shown in Figure 1.

ADDITIONAL INFORMATION

Product Categories/Family for IL1a active protein	Cytokine; Apoptosis
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NCBI AND UNIPROT INFORMATION

NCBI GI #	27894330
NCBI GeneID	3552
NCBI Accession #	NP_000566.3
NCBI GenBank Nucleotide #	NM_000575.4
UniProt Accession #	Q53QF9; Q7RU02; P01583
Molecular Weight	Predicted Molecular Weight: 21.2kDa Accurate Molecular Weight: 21kDa
NCBI Official Full Name	interleukin-1 alpha
NCBI Official Synonym Full Names	interleukin 1 alpha
NCBI Official Symbol	IL1A
NCBI Official Synonym Symbols	IL1; IL-1A; IL1F1; IL1-ALPHA
NCBI Protein Information	interleukin-1 alpha
UniProt Protein Name	Interleukin-1 alpha
UniProt Gene Name	IL1A
UniProt Synonym Gene Names	IL1F1; IL-1 alpha

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-human-active-protein/interleukin-1-alpha-il1a/148220>