

Recombinant Human IL-1 alpha Protein

Product Information

Product Name	Cat#	Size
	90100ES10	10 µg
Recombinant Human IL-1 alpha Protein	90100ES60	100 µg
	90100ES76	500 µg

Product Description

Interleukin-1 alpha (IL1a) is also known as IL-1A, IL1, and is a cytokine of the interleukin-1 family. Among various species, the amino acid sequence of mature IL-1 alpha is conserved 60% to 70% and human IL-1 has been found to be biologically active on murine cell lines. It possesses metabolic, physiological, haematopoietic activities, and plays one of the central roles in the regulation of the immune responses. IL-1 is a major immunoregulatory/proinflammatory cytokine which also affects fibroblast proliferation and function and therefore it was of interest to investigate whether its constitutive expression influences the in vivo tumorigenic potential of transformed fibroblastoid cell lines

Product Properties

Synonyms	Interleukin-1 alpha, IL-1 α , BAF, IL-1F1, LAF, LEM, preinterleukin 1 alpha, pro-interleukin-1-alpha
Accession	P01583
GeneID	3552
Source	E.coli-derived human IL-1alpha protein, Ser113-Ala271.
Molecular Weight	Approximately 18.0 kDa.
AA Sequence	SAPFSFLSNV KYNFMRIIKY EFILNDALNQ SIIRANDQYL TAAALHNLDE AVKFDMGAYK SSKDDAKITV ILRISKTQLY VTAQDEDQPV LLKEMPEIPK TITGSETNLL FFWETHGTKN YFTSVAHPNL FIATKQDYWV CLAGGPPSIT DFQILENQA
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	> 97% by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by a cell proliferation assay using murine D10S cells is less than 1.0 pg/mL, corresponding to a specific activity of > 1.0 × 10 ⁹ IU/mg.
Endotoxin	< 1.0 EU per 1µg of the protein by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20°C. Further dilutions should be made in appropriate buffered solutions.

Shipping and Storage

The products are shipped with ice pack and can be stored at -20 °C for 1 year.

1 month, 2 to 8 °C under sterile conditions after reconstitution.

3 months, -20 °C under sterile conditions after reconstitution.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only.