

# Human IL-1 alpha Recombinant Protein

Product Details	
Size	20 µg
Species	Human
Expression system	P. pastoris
Amino acid sequence	Human IL-1 alpha, amino acids 113-271 (Accession # P01583)
Molecular weight	18 kDa
Class	Recombinant
Type	Protein
Purity	>95% by SDS-PAGE
Activity	ED50 = 7.9 - 13.5 pg/mL; determined by the dose-dependent proliferation of mouse D10S cells.
Conjugate	Unconjugated
Form	Lyophilized
Purification	purified
Storage buffer	PBS
Contains	no preservative
Storage conditions	4° C

Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-dependent	-
ELISA (ELISA)	Assay-dependent	-
Immunoprecipitation (IP)	Assay-dependent	-
Control (Ctrl)	Assay-dependent	-

## Product Specific Information

Mature human IL-1a was expressed in *Pichia pastoris*, KM71H. GenBank Accession # P01583, amino acids 113 - 271. For protein verification, the expressed protein was N-terminal sequenced and begins with the following 10 amino acids: SAPFSFLSNV. Purity is >95% by SDS-PAGE analysis.

Activity: The ED50 typically falls into the range of 7.9 - 13.5 pg/mL in proliferation assays of mouse D10S cells.

Use: For in vitro applications. A dose-response assay should be performed to determine the optimal concentration for specific experiments.

Reconstitution and Dilution: Store lyophilized material at 4°C. Reconstitute in 0.5 mL of distilled or deionized water. Dilute in a buffer-containing carrier protein, aliquot, and store at or below -70°C, avoiding multiple freeze-thaw cycles. PBS with 1% BSA or a neutral media containing <10% FCS are suitable buffers.

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