



# Meridian

## Life Science,® Inc.

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### CERTIFICATE OF ANALYSIS

**Important Note:** Centrifuge before opening to ensure complete recovery of vial contents.

**Catalog #:** A42201H **Lot #:** 10G19515

**Description:** Human IL-1a, Recomb.  
Human Interleukin 1a (IL-1a), Recombinant

Recombinant Human IL-1a is a single, non-glycosylated polypeptide chain containing 159 amino acids and having a molecular weight of 18,022 Da. The sequence of the first five N-terminal amino acids was determined to be Ser-Ala-Pro-Phe-Ser. Contains less than 1% dimers and aggregates.

**Source:** *E. coli*

**Format:** Purified, Lyophilized  
Reconstitute using sterile deionized water to a concentration  $\geq 100 \mu\text{g/ml}$ . Further dilutions can be made in other aqueous buffers.

**Purification:**  $> 97\%$  pure (HPLC and SDS-PAGE). Endotoxin level is less than  $0.1 \text{ ng}/\mu\text{g}$  (IEU/ $\mu\text{g}$ ). Purified by chromatographic techniques.  
Product is sterile filtered.

**Concentration:**  $1 \text{ mg/mL}$  (OD280nm,  $E^{0.1\%} = 1.13$ ) (prior to lyophilization).

**Buffer:** Lyophilized from a sterile solution containing 25 mM Tris-HCl, pH 8.0.

**Preservative:** None

**Applications:** The ED50 as determined by dose-dependent stimulation of mouse D10S cells is less than  $0.001 \text{ ng/mL}$ , corresponding to a specific activity of  $1 \times 10 \text{ IU/mg}$ . Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.

**Storage:** The lyophilized product, though stable for 3 weeks at room temperature, is best stored at  $-20^\circ\text{C}$ . After reconstitution, short term (up to 1 week) store at  $2-8^\circ\text{C}$ . Long term, add 0.1% HSA or BSA, aliquot and store at  $-20^\circ\text{C}$ . Avoid multiple freeze/thaw cycles.

**Inactivation:** Not Applicable

Signature

17 July 2015

Date

**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**