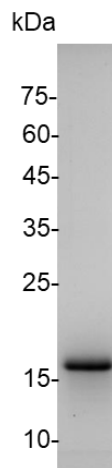


IL-1 alpha (Interleukin-1 alpha), Mouse

v. 231101

| | |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Catalog number | C02001-5UG / C02001-20UG / C02001-100UG |
| Package | 5 µg / 20 µg / 100 µg |
| Description | Interleukin 1 alpha (IL-1α) also known as hematopoietin 1 is a cytokine of the interleukin 1 family that in humans is encoded by the IL1A gene. IL-1α is produced mainly by activated macrophages, as well as neutrophils, epithelial cells, and endothelial cells. It possesses metabolic, physiological, haematopoietic activities, and plays one of the central roles in the regulation of the immune responses. It binds to the interleukin-1 receptor. It is on the pathway that activates tumor necrosis factor-alpha. |
| Source | <i>Escherichia coli</i> |
| Sequence | MSAPYTYQSDLRYKLMKLVQRQKFMNDSLNTIYQDVDPKHVYLSSTWLNLDLQQ EVKFDMYAYSSGGDDSKYPVTLKISDSQLFVSAQGEDQPVLLKELPETPKLITG SETDLIFFWKSINSKNYFTSAAYPELFIATKEQSRVHLARGLPMSMTDFQIS with polyhistidine tag at the C-terminus |
| Endotoxin level | <0.1 EU per 1 µg of the protein by the LAL method. |
| Activity | Measure by its ability to induce D10.G4.1 cells proliferation. The ED ₅₀ for this effect is <5 pg/mL. The specific activity of recombinant mouse IL-1 alpha is > 2 x 10 ⁸ IU/mg. |
| Purity | >95% as determined by SDS-PAGE. |
| Form | Lyophilized |
| Storage Buffer | Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. |
| Reconstitution | It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved. |
| Stability & Storage | This product is stable after storage at: <ul style="list-style-type: none"> • -20°C for 12 months in lyophilized state from date of receipt. • -20°C or -80°C for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles. |



SDS-PAGE analysis of recombinant mouse IL-1 alpha

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