

Product datasheet for TP728329M

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

Product data:

Product Type: Recombinant Proteins Description: Recombinant IL-1 alpha (Interleukin-1 alpha), Mouse Species: Mouse **Expression Host:** E. coli MSAPYTYQSDLRYKLMKLVRQKFVMNDSLNQTIYQDVDKHYLSTTWLNDLQQEVKFDMYAYSSGGDDS **Expression cDNA Clone** KYPVTLKISDSQLFVSAQGEDQPVLLKELPETPKLITGSETDLIFFWKSINSKNYFTSAAYPELFIATKEQSRVH or AA Sequence: LARGLPSMTDFQIS with polyhistidine tag at the C-terminus. His Tag (C-term) Tag: Predicted MW: The protein has a calculated MW of 18.93 kDa. The protein migrates as 20 kDa under reducing condition (SDS-PAGE analysis). >95% as determined by SDS-PAGE. **Purity:** The protein was lyophilized from a 0.2 µm filtered solution containing 1X PBS, pH 7.4. **Buffer: Bioactivity:** Measure by its ability to induce D10.G4.1 cells proliferation. The ED₅₀ for this effect is <5 pg/mL. The specific activity of recombinant mouse IL-1 alpha is $> 2 \times 10^8$ IU/mg. Endotoxin: <0.1 EU per 1 µg of the protein by the LAL method. Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the **Reconstitution Method:** lyophilized protein in sterile H₂O to a concentration not less than 100 µg/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein. **Applications:** Cell culture Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to Storage: 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles. **UniProt ID:** P01582 Hematopoietin-1, Lymphocyte-Activating Factor (LAF), Endogenous Pyrogen (EP), Leukocyte Synonyms:



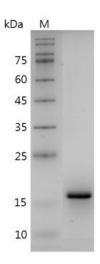
This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2025 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Image: Summary:Interleukin-1 alpha (Interleukin-1 alpha), Mouse - TP728329MSummary:Interleukin-1 alpha (IL1 alpha or IL1α) is a member of the interleukin-1 cytokine family, found
constitutively present in epithelial layers of the entire gastrointestinal tract, lung, liver, kidney,
endothelial cells, and astrocytes. The synthesized IL-1 alpha is a 31 kDa inactive precursor
and can be cleaved by intracellular caspase-1 or extracellular proteases to generate the
bioactive 17 kDa form and the 16 kDa N-terminal cleavage product. Both precursor and
mature IL-1 alpha protein bind to the IL-1 receptor (IL-1R), initiating a cascade of
inflammatory cytokines and chemokines production such as IL-6, IL-8, and TNF, in response
to viral and bacterial pathogens conditions. IL-1 alpha plays a central role in immune-
surveillance mechanisms, stimulating macrophages, neutrophils, and CD8+ T cells activity.

Product images:



SDS- PAGE analysis of recombinant mouse IL-1 alpha

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2025 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US