

Datasheet for ABIN6700154

## IL-6 Protein



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### Overview

Quantity:	10 µg
Target:	IL-6 (IL6)
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

### Product Details

Purpose:	IL-6 Mouse Recombinant Protein
Purification:	Purity greater than 95% as determined by reducing and non-reducing SDS-PAGE.
Purity:	95,00%
Endotoxin Level:	Measured by LAL is 0.05 EU/µg protein (with a 50% confidence range).
Biological Activity Comment:	Recombinant mouse IL-6 is fully biologically active when compared to standards. The ED50, as determined by dose-dependent induction of 7TD1 cell proliferation, is 2.4-3.6 pg/mL.

### Target Details

Target:	IL-6 (IL6)
Alternative Name:	Il6 ( <a href="#">IL6 Products</a> )
Background:	<p>Synonyms: Interleukin-6 cytokine, IL-6, B-cell stimulatory factor 2, BSF-2, Interferon beta-2, IFN-beta-2, Hybridoma growth factor, CTL differentiation factor, CDF, Interleukin HP-1</p> <p>Background: Interleukin (IL)-6, also know as BCDG, BCGF and BSF-2, is an important</p>

## Target Details

proinflammatory and immunoregulatory cytokine expressed by various cells. Interleukin-6 has been shown to inhibit the growth of early stage and to promote the proliferation of advanced stage melanoma cells in vitro. Recombinant Mouse IL-6 produced in E. coli is a single, non-glycosylated polypeptide chain containing 187 amino acids and having a molecular mass of 21,709 Daltons.

UniProt: [P08505](#)

Pathways: [TLR Signaling](#), [Hormone Transport](#), [Negative Regulation of Hormone Secretion](#), [Myometrial Relaxation and Contraction](#), [Positive Regulation of Immune Effector Process](#), [Production of Molecular Mediator of Immune Response](#), [Regulation of Carbohydrate Metabolic Process](#), [Autophagy](#), [Cell RedoxHomeostasis](#), [Cancer Immune Checkpoints](#), [Inflammasome](#)

## Application Details

Application Notes: Other: User Optimized  
Application\_Note: Interleukin-6 (IL-6) has been tested by SDS-PAGE and is suitable as a control for polyclonal or monoclonal anti-Interleukin-6 (IL-6) in immunological assays.

Comment: Suggested\_Applications: IHC, WB  
Other\_Performance\_Data:

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Reconstitution: Reconstitution\_Buffer: Restore with deionized water (or equivalent)  
Reconstitution\_Volume: 100 µL

Concentration: 0.1 mg/mL

Buffer: Buffer: 0.1 % Trifluoroacetic acid  
Stabilizer: None  
It is recommended to reconstitute the lyophilized recombinant M-IL-6 in 10 mM HCl to 0.1-1.0 mg/mL to regain full activity, this can then be further diluted to other aqueous solutions.

Preservative: Without preservative

Storage: 4 °C,-20 °C

Storage Comment: Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This

Handling

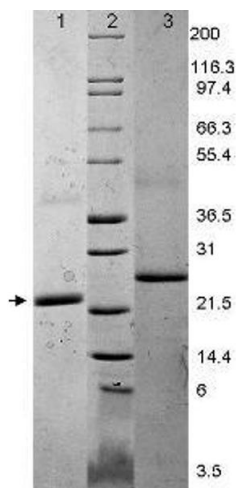
product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL) . For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.

Expiry Date: 6 months

Publications

Product cited in: Turnis, Kaminska, Smith, Kartchner, Vogel, Laxton, Ashmun, Ney, Opferman: "Requirement for antiapoptotic MCL-1 during early erythropoiesis." in: **Blood**, Vol. 137, Issue 14, pp. 1945-1958, (2021) ([PubMed](#)).

Images



**SDS-PAGE**

**Image 1.** IL-6 Protein Mouse Recombinant Protein - SDS-PAGE. SDS-PAGE using Recombinant Mouse IL-6 Protein shows bands corresponding to IL-6 (1µg) in lane 1 (unreduced, arrowhead) and lane 3 (reduced). Molecular weight estimation was made by comparison to prestained MW markers, lane 2.