

Datasheet for ABIN6700123

IL-31 Protein**2** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	IL-31 (IL31)
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	Mouse Interleukin IL-31 Recombinant Protein
Purification:	Interleukin IL-31 purity was determined to be greater than 97% as determined by analysis by UV-Spectroscopy at 280nm and by reducing and non-reducing SDS-pAGE.
Purity:	97,00%
Endotoxin Level:	Measured by LAL is typically ≤ 1 EU/µg protein.
Biological Activity Comment:	The activity is determined by the dose dependent production of IL-8 from human PBMCs and is typically less than 25 ng/mL.

Target Details

Target:	IL-31 (IL31)
Alternative Name:	Il31 (IL31 Products)
Background:	Synonyms: Interleukin-31, IL-31, Interleukin 33 Background: Interleukin-31 (IL-31) is an immunoregulatory cytokine that is mainly expressed by

Target Details

activated TH2 cells. IL-31 signals through the IL-31 Receptor (IL-31RA) and the oncostain receptor (OSMR), which are expressed on monocytes, epithelial cells, and keratinocytes. IL-31 has a role in inflammatory skin diseases. Recombinant mouse IL-31 is a non-glycosylated protein, containing 141 amino acids, with a molecular weight of 15.7 kDa.

UniProt: [Q6EAL8](#)

Application Details

Application Notes: Other: User Optimized
Application_Note: Interleukin IL-31 Recombinant Protein has been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti-Interleukin IL-31 in immunological assays.

Comment: Suggested_Applications: Cellular Assay
Other_Performance_Data:

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstitution_Buffer: Restore with deionized water (or equivalent)
Reconstitution_Volume: 1.0 mL

Concentration: 0.1 mg/mL

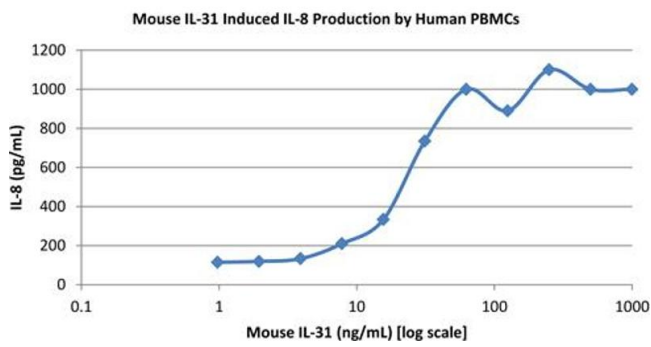
Buffer: Buffer: 0.01 M Sodium Phosphate, pH 7.5
Stabilizer: None

Preservative: Without preservative

Storage: -20 °C

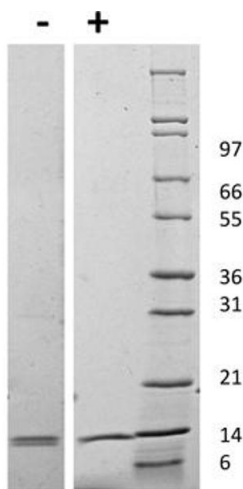
Storage Comment: Store vial at -20° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze 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



SDS-PAGE

Image 1. SDS-PAGE of Mouse Interleukin IL-31 Recombinant Protein Bioactivity of Mouse Interleukin IL-31 Recombinant Protein. Human PBMCs were cultured with 0 to 1000 ng/mL Mouse IL-31. Human IL-8 production was measured after 48 hours and the linear portion of the curve was used to calculate the ED50. The ED50 of Mouse IL-31 is 16-24 ng/mL.



SDS-PAGE

Image 2. SDS-PAGE of Mouse Interleukin IL-31 Recombinant Protein SDS-PAGE of Mouse Interleukin-31 Recombinant Protein. Lane 1: 1 µg Mouse IL-31 in non-reducing conditions . Lane 2: 1 µg Mouse IL-31 in reducing conditions (+). Lane 3: Molecular weight marker. Mouse IL-31 has a predicted MW of 15.7 kDa.