

IL-31, Mouse, Recombinant

Cat. No. : PCK319

General Information

Synonyms	1700013B14Rik
Species	Mouse
Expression host	E.coli
Sequence	MTCSLSFGAPISKEDLRTTIDLLKQESQDLYNNYSIKQASGMSADESIQLPCFSLDREALTNISV IIAHLEKVKVLSSENTVDTSWVIRWLTNISCFNPLNLNISVPGNTDESYDCKVFVLTVLKQFSNC MAELQAKDNTTC with polyhistidine tag at the C-terminus.
Accession	Q6EAL8.1
Tag	His-tag at the C-terminus
Mol mass	16.56 kDa
Expiration date	12 months

Product feature

Purity	> 98% as determined by SDS-PAGE. Ni-NTA chromatography.
Endotoxin (EU/μg)	< 0.1
Storage	Lyophilized protein should be stored at -5~-20°C for 1 year. Upon reconstitution, store at 2-8°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 -5~-20°C or -80°C for 3-6 months.
Shipping	Ice bag
Formulation	The protein was lyophilized from a 0.2 μm filtered solution containing 1 × PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μg/mL. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

Background

Interleukin-31 (IL-31) is an inflammatory cytokine that helps trigger cell-mediated immunity against pathogens. It has also been identified as a major player in a number of chronic inflammatory diseases, including atopic dermatitis. It is produced by a variety of cells, namely type 2 helper (TH2) T-cells. IL-31 sends signals through a receptor complex made of IL-31RA and oncostatin M receptor β (OSMRβ) expressed in immune and epithelial cells. These signals activate three pathways: ERK1/2 MAP kinase, PI3K/AKT, and JAK1/2 signaling pathways.

SDS-PAGE

