

Recombinant Human IL31

Cat No:HR2R1598

For research use only

Overview

Quantity	1.0 ?g
Gene Symbol	IL31
Gene ID	386653
Accession	Q6EBC2
Alternative Name	IL-31 Recombinant Human Interleukin-31 (IL31)
Species	Human
Source	E. coli
Description	<p>IL-31 is a recently discovered helical cytokine, belonging to the gp130/IL-6 cytokine family. The receptors for IL-6 family are type I receptors, and they share a number of common structural motifs, such as the cytokine-binding domain with two pairs of conserved cysteine residues and a WSXWS sequence motif in the extracellular domain. IL-31 is expressed preferentially by activated Th2 CD4+ T cells, signaling through a heterodimeric receptor complex composed of IL-31RA and OSMR. Recent studies in both humans and mice have suggested a link between IL-31/IL-31R expression and skin inflammation although the functional significance of endogenous IL-31/IL-31R interactions in influencing innate and adaptive immune responses remains unknown.</p>
Functions	The ED(50) was determined by the ability to induce STAT3 activation in U87 MG cells, and was determined to be not less than 7.0 ng/mL.
Formulation	Recombinant Interleukin-31 was lyophilized from a 0.2 ?m filtered PBS solution pH 7.5.
Solubility	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Appearance	Lyophilized Powder
Molecular Weight	18
Purity	>95% as determined by SDS-PAGE
Concentration	<1.0 EU/?g of recombinant protein as determined by the LAL method.
Shipping Condition	Ambient Temperature
Storage Condition	The lyophilized protein is stable for at least one year from date of receipt at -70?C. Upon reconstitution, this cytokine can be stored in working aliquots at 2? - 8?C for one month, or at -20?C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.