

Recombinant Human IL31

Cat No:HR2R1597

For research use only

Overview

Quantity	10 ?g
Gene Symbol	IL31
Gene ID	386653
Accession	Q6EBC2
Alternative Name	IL-31 Recombinant Human Interleukin-31 (IL31)
Species	Human
Source	E. coli
Description	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.
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.