9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

IP 10 Rhesus macaque

IP-10 Rhesus macaque Recombinant (CXCL10)
CHK0086

Product Overview

Name	IP 10 Rhesus macaque
Description	
IP-10 Rhesus macaque Recombinant (CXCL10)	
Accession (Primary)	Q8MIZ1
Synonyms	
C-X-C motif chemokine 10, 10 kDa, Gamma-IP10, IP-10, Small-inducible cytokine B10, CXCL10, SCYB10.	
Introduction	
Chemokine (C-X-C motif) ligand 10 (CXCL10) is a small cytokine belonging to the CXC chemokine family that is also known as 10 kDa IP-10. CXCL10 is secreted by several cell types in response to IFN-?. These cell types include monocytes, endothelial cells and fibroblasts. CXCL10 has been attributed to several roles, such as chemoattraction for monocytes and T cells, promotion of T cell adhesion to endothelial cells, antitumor activity, and inhibition of bone marrow colony formation and angiogenesis. The gene for CXCL10 is located on human chromosome 4 in a cluster among several other CXC chemokines. This chemokine elicits its effects by binding to the cell surface chemokine receptor CXCR3. The three-dimensional crystal structure of this chemokine has been determined under 3 different conditions to a resolution of up to 1.92A.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Lyophilized from a 0.2 μm filtered concentrated solution in 1×PBS, pH 7.4.	
Stability	
Lyophilized IP-10 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CXCL10 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.	
Purity	
Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	

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IPLSRTVRCT CISISNQPVN PRSLEKLEII PPSQFCPHVE IIATMKKKGE KRCLNPESKA IKNLLKAVSK ERSKRSP.

Biological Activity

Determined by its ability to chemoattract human peripheral blood T-Lymphocytes using a concentration range of 10.0-100.0 ng/ml.

Solubility

It is recommended to reconstitute the lyophilized IP-10 in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

IP 10 Rhesus macaque is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q8MIZ1)