

Datasheet for ABIN6699675

CXCL10 Protein

2 Images



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Overview

Quantity:	25 µg
Target:	CXCL10
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	Mouse IP-10 (CXCL10) Recombinant Protein
Purification:	Ip-10 (CXCL10) purity was determined to be greater than 97% as determined by HPLC 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 its ability to chemoattract primary human T cells at 0.1-10 ng/mL.

Target Details

Target:	CXCL10
Alternative Name:	Cxcl10 (CXCL10 Products)
Background:	<p>Synonyms: 10 kDa interferon gamma-induced protein (IP-10), C7, Interferon-gamma induced protein CRG-2, small-inducible cytokine B10</p> <p>Background: The chemokine IP-10 (or CXCL10) is a chemokine made by monocytes,</p>

Target Details

endothelial cells and fibroblasts in response to treatment with IFN γ . IP-10 functions as a chemoattractant to cells expressing the G protein-coupled receptor, CXCR3, which is found mainly on activated T cells and NK cells. IP-10 plays an important role in Th1 type inflammatory diseases and autoimmune diseases such as, Hashimoto's thyroiditis, Graves' disease and Type 1 diabetes mellitus. Recombinant mouse IP-10 is a non-glycosylated protein, containing 77 amino acids, with a molecular weight of 8.7 kDa.

UniProt: [P17515](#)

Application Details

Application Notes: Other: User Optimized
Application_Note: IP-10 Recombinant Protein has been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti-IP-10 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: 25 μ L (25-250 μ L)

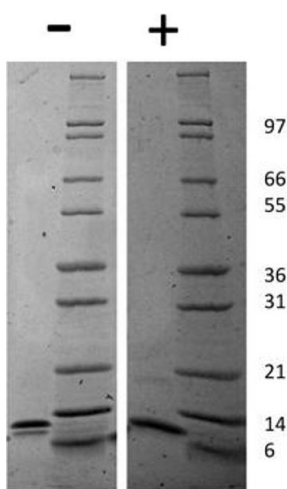
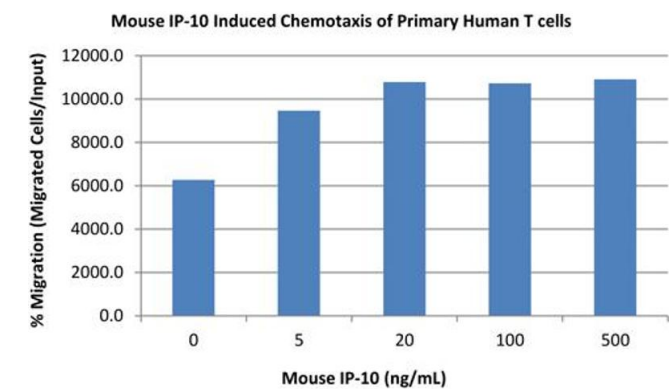
Buffer: Buffer: 0.1 % Trifluoroacetic acid
Stabilizer: None

Preservative: Without preservative

Storage: 4 °C,-20 °C

Storage Comment: Store vial at 4° 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 IP-10 (CXCL10) Recombinant Protein Bioactivity of Mouse IP-10 (CXCL10) Recombinant Protein. Human T cells were allowed to migrate to Mouse IP-10 at (0, 5, 20, 100 and 500 ng/mL). After 4 hours, cells that migrated were counted using a luminescent substrate and displayed on the bar graph above. Significant increases in migration over basal levels were seen in response to Mouse IP-10 detectable starting at 5 ng/mL.

SDS-PAGE

Image 2. SDS-PAGE of Mouse IP-10 (CXCL10) Recombinant Protein SDS-PAGE of Mouse IP-10 (CXCL10) Recombinant Protein. Lane 1: 1 μ g Mouse IP-10 in non-reducing conditions . Lane 2: 1 μ g Mouse IP-10 in reducing conditions (+). Lane 3: Molecular weight marker. Mouse IP-10 has a predicted MW of 8.7 kDa.