

Datasheet for 009-001-V69-0005**rHuman IP-10 (CXCL10) Protein****Overview**

Description:	Human IP-10 (CXCL10) Recombinant Protein - 009-001-V69-0005
Item No.:	009-001-V69-0005
Size:	5 µg
Applications:	Cellular Assay
Origin:	Human
Expressed in:	E. coli

Product Details

Background:	The chemokine IP-10 (or CXCL10) is a chemokine made by monocytes, endothelial cells and fibroblasts in response to treatment with IFN γ . IP-10 functions as a chemoattractant to cells (activated T cells and NK cells) expressing the G protein-coupled receptor, CXCR3. 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 human IP-10 is a non-glycosylated protein, containing 77 amino acids, with a molecular weight of 8.5 kDa.
Synonyms:	10 kDa interferon gamma-induced protein (IP-10), crg-2, small-inducible cytokine B10
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein
Low Endotoxin:	Yes

Target Details

Gene Name:	CXCL10
Purity/Specificity:	Ip-10 (CXCL10) purity was determined to be greater than 97% as determined by HPLC, analysis by UV-Spectroscopy at 280nm, and by reducing and non-reducing SDS-PAGE.
Relevant Links:	• UniProtKB - P02778

Application Details

Suggested Applications:	Cellular Assay (Based on references)
Application Note:	IP-10 Recombinant Protein has been tested by biological activity and is suitable as a control for polyclonal or monoclonal anti-IP-10 in immunological assays.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
Other:	Endotoxin Level: Measured by kinetic LAL analysis and is typically ≤ 1 EU/ μ g protein. Biologic Activity: The activity is determined by its ability to chemoattract human T lymphocytes at 5 – 40 ng/mL.

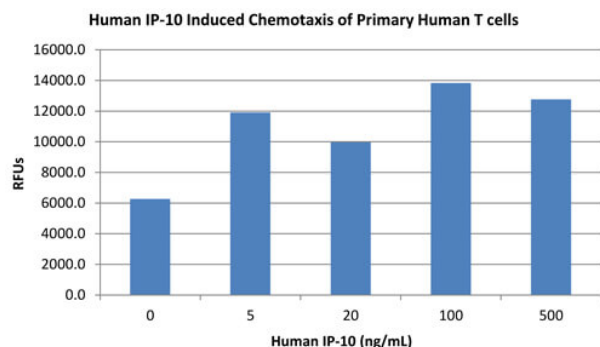
Formulation

Physical State:	Lyophilized
Concentration:	0.1 mg/mL by UV absorbance at 280 nm
Buffer:	0.1% Trifluoroacetic acid
Preservative:	None
Stabilizer:	None
Reconstitution Volume:	5 μ l (5-50 μ l)
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	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.
Expiration:	Expiration date is six (6) months from date of receipt.

Images



SDS-PAGE

Bioactivity of Human IP-10 (CXCL10) Recombinant Protein. Human T cells were allowed to migrate to Human 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 Human IP-10 starting at 5 ng/mL.

Disclaimer

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