Technical Data Sheet

Recombinant Human IP-10

Product Information

551130 **Material Number:** $10 \mu g$

Storage Buffer: Lyophilized in an aqueous buffered solution containing BSA.

Description

Interferon-y inducible protein-10 (IP-10) is a 10 kD protein that belongs to CXC chemokine family. Unlike other CXC chemokines, IP-10 is a chemoattractant for activated lymphocytes, but not resting lymphocytes or neutrophils. The gene for human IP-10 has been mapped to chromosome 4q2. CXC chemokine receptor 3 (CXCR3) has been identified as the receptor for IP-10.

Purity: The recombinant human IP-10 was produced and found to be ≥ 95% pure by SDS-PAGE analysis and visualized by silver strain.

Preparation and Storage

This preparation contains no preservatives, thus it should be handled under aseptic conditions.

Store product at -80°C prior to use or for long term storage of stock solutions.

Avoid multiple freeze-thaws of product.

Recombinant human IP-10 is supplied lyophilized from a solution of aqueous buffered solution containing 50 µg BSA per 1 µg of cytokine as carrier protein. No sodium azide has been added to the preparation and the endotoxin level is less than 1 EU per 1 µg of the cytokine as determined by the LAL method. The product can be reconstituted in sterile neutral buffer containing not less than 0.5 - 10.0 mg/ml carrier protein such as human or bovine serum albumin, aliquoted into polypropylene microtubes and stored at -80°C.

NOTE: Failure to add carrier protein** or store at indicated temperatures may result in a loss of activity.

Application Notes

Recommended Assay Procedure:

ELISA Standard: The recombinant human IP-10 (Cat. No. 551130) is useful as a quantitative standard for a sandwich ELISA for measuring human IP-10 protein levels. Purified 4D5 antibody (Cat. No. 555046) can be paired with the biotinylated 6D4 antibody (Cat. No. 555048) with recombinant human IP-10 as the standard. To obtain linear standard curves, doubling dilutions of human IP-10 ranging from ~1,000 to 5 pg/ml are recommended for inclusion in each ELISA plate. For specific methodology please visit the protocols sections or the chapter on ELISA in the Immune Function Handbook, both of which are posted on our web site, www.bdbiosciences.com.

Note: This ELISA pair is recommended primarily for measuring cytokine from experimental cell culture systems. These ELISA reagents are not recommended for assaying serum or plasma samples. For measuring human-IP-10 in serum or plasma our BD OptEIA™ Human IP-10 Set (Cat. No. 550926) is specially formulated and recommended.

Note: Biological Activity: This preparation of recombinant human IP-10 protein has not been evaluated for biological activity.

Suggested Companion Products

Catalog Number	Name	Size	Clone	
555046	Purified Mouse Anti-Human IP-10	0.5 mg	4D5/A7/C5	
550926	Human IP-10 ELISA Set	20 tests	(none)	
555048	Biotin Mouse Anti-Human IP-10	0.5 mg	6D4/D6/G2	

Product Notices

- Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols. 2.
- Source of all serum proteins is from USDA inspected abattoirs located in the United States.

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^{**}Carrier proteins should be pre-screened for possible effects in an appropriate experimental system. Carrier proteins may effect experimental results due to toxicity, high endotoxin levels or possible blocking activity.

References

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