Technical Data Sheet

Recombinant Human IP-10

Product Information

Material Number: 551130
Size: 10 µg
Storage Buffer: Lyophilized in an aqueous buffered solution containing BSA.

Description

Interferon-γ 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.

**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.

Suggested Companion Products

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

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

BD Biosciences

wwwbdbiosciences.com
877.232.8995  888.259.0187  323.52.720.550  0120.855.90  65.5861.0633  55.11.5185.9995
For country-specific contact information, visit wwwbdbiosciences.com/how_to_order/

Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton Dickinson and Company is strictly prohibited.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.
BD, BD Logo and all other trademarks are the property of Becton, Dickinson and Company. ©2007 BD

551130 Rev. 1
References

Farber JM. Mig and IP-10: CXC chemokines that target lymphocytes. *J Leukoc Biol.* 1997; 61(3):246-257. (Biology)

