

Technical Data Sheet

Human IL-12p70 Standard

Product Information

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| Material Number: | 558459 |
| Component: | 51-9003505 |
| Description: | Human IL-12p70 Standard |
| Size: | 1 Vial (1 ea) |
| Storage Buffer: | Lyophilized in an aqueous buffered solution containing BSA and ProClin™ 150. |

Description

This product contains lyophilized recombinant human Interleukin-12p70 (IL-12p70). When reconstituted, this product can be used as a standard control with the BD™ CBA Human IL-12p70 Flex Set (Cat. No. 558283) or with the BD™ CBA Human IL-12p70 Enhanced Sensitivity Flex Set (Cat. No. 561518). Please refer to the technical data sheet included with the BD™ CBA Human IL-12p70 Flex Set or the BD™ CBA Human IL-12p70 Enhanced Sensitivity Flex Set for further information.

Preparation and Storage

Store the lyophilized standard at 4°C prior to reconstitution.

Lyosphere(s) from 1 vial of Human IL-12p70 Standard, when reconstituted in 4.0 mL Assay Diluent, approximates the CBA activity of Human IL-12p70 at a concentration of 2500 pg/mL. Following reconstitution, maintain the Human IL-12p70 at 4°C and use within 12 hours. Any unused reconstituted standard must be discarded after this period (do not store or reuse).

Application Notes

Application

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| Flow cytometry | Routinely Tested |
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Recommended Assay Procedure:

The Human IL-12p70 Standard has been tested to assure to function as a standard when used with the BD™ Cytometric Bead Array (CBA). Investigators are encouraged to refer to the technical data sheet for the BD™ CBA Human IL-12p70 Flex Set (Cat. No. 558283) or the BD™ CBA Human IL-12p70 Enhanced Sensitivity Flex Set (Cat. No. 561518). The Human IL-12p70 Standard is lyophilized and should be reconstituted and serially diluted before mixing with CBA capture beads and PE detection reagents. An abbreviated instruction has been provided below (Preparation of Human IL-12p70 Standard Protocol). The Human IL-12p70 Standard should be reconstituted using Assay Diluent, which is provided with the BD™ CBA Human Soluble Protein Master Buffer Kit (Cat. No. 558264 or 558265), the BD™ CBA Human Enhanced Sensitivity Master Buffer Kit (Cat. No. 561521 or 561523) or it may also be purchased separately (Cat. No. 560104).

Preparation of Human IL-12p70 Standard for use with the BD™ CBA Human IL-12p70 Flex Set (Cat. No. 558283):

1. Open one vial of the lyophilized Human IL-12p70 Standard. Transfer the lyosphere(s) to a polypropylene tube (BD Falcon™, Cat. No. 352097). Label the tube "Top Standard".
2. Reconstitute the standard with 4.0 mL of Assay Diluent. Allow the reconstituted standard to equilibrate for at least 15 minutes before making dilutions. **Mix the reconstituted protein by pipette only. Do not vortex or mix vigorously.**
3. Label additional 12 x 75 mm tubes (BD Falcon™, Cat. No. 352008) and arrange them in the following order: Top Standard, 1:2, 1:4, 1:8, 1:16, 1:32, 1:64, 1:128, and 1:256.
4. Add 500 µl of Assay Diluent to each of the dilution tubes.
5. Perform a serial dilution by transferring 500 µl from the Top Standard to the 1:2 dilution tube and mix thoroughly. **Do not vortex, mix by pipet only.** Continue making serial dilutions by transferring 500 µl from the 1:2 tube to the 1:4 tube and so on to the 1:256 tube and mix thoroughly. Prepare one tube containing only Assay Diluent to serve as the 0 pg/mL negative control.

Preparation of Human IL-12p70 Standard for use with the BD™ CBA Human IL-12p70 Enhanced Sensitivity Flex Set (Cat. No. 561518):

1. Open one vial of the lyophilized Human IL-12p70 Standard. Transfer the lyosphere(s) to a polypropylene tube (BD Falcon™, Cat. No. 352097).
2. Reconstitute the standard with 4.0 mL of Assay Diluent. Allow the reconstituted standard to equilibrate for at least 15 minutes before making dilutions. **Mix the reconstituted protein by pipette only. Do not vortex or mix vigorously.**
3. Label additional 12 x 75 mm tubes (BD Falcon™, Cat. No. 352008) and arrange them in the following order: Top Standard, 1:3, 1:9, 1:27, 1:81, 1:243, and 1:729.
4. Add 460 µl of Assay Diluent into the Top Standard tube.
5. Add 400 µl of Assay Diluent to each of the remaining dilution tubes.
6. Transfer 40 µl of the reconstituted standard into the Top Standard tube. Mix by pipette or gently vortexing for no longer than 3 seconds.

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| 877.232.8995 | 866.979.9408 | 32.2.400.98.95 | 0120.8555.90 | 65.6861.0633 | 55.11.5185.9995 |

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7. Perform a serial dilution by transferring 200 µl from the Top Standard to the 1:3 dilution tube and mix thoroughly. **Do not vortex, mix by pipet only.** Continue making serial dilutions by transferring 200 µl from the 1:3 tube to the 1:9 tube and so on to the 1:729 tube and mix thoroughly. Prepare one tube containing only Assay Diluent to serve as the 0 fg/mL negative control.

Suggested Companion Products

| Catalog Number | Name | Size | Clone |
|----------------|--|-----------|--------|
| 558283 | Human IL-12p70 Flex Set | 1 Vial(s) | (none) |
| 558264 | Human Soluble Protein Master Buffer Kit | 100 Tests | (none) |
| 558265 | Human Soluble Protein Master Buffer Kit | 500 Tests | (none) |
| 560104 | Assay Diluent | 30 mL | (none) |
| 352097 | BD Falcon™ Conical Centrifuge Tubes, 15 ML | | (none) |
| 352008 | BD Falcon™ Round Bottom Tubes, 6 ML | | (none) |
| 561518 | Human IL-12p70 Enhanced Sensitivity Flex Set | 100 Tests | (none) |
| 561521 | Human Enhanced Sensitivity Master Buffer Kit | 100 Tests | (none) |
| 561523 | Human Enhanced Sensitivity Master Buffer Kit | 500 Tests | (none) |

Product Notices

1. ProClin is a trademark of Rohm and Haas Company.
2. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
3. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.
4. Warning: CBA lyophilized standard contains 0.02% (w/w) of a CMIT/MIT mixture (3:1), which is a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC No 220-239-6] (3:1).
Hazard statement: May cause an allergic skin reaction.
Precautionary statements: Wear protective gloves/eye protection. Wear protective clothing. Avoid breathing mist/vapours/spray. If skin irritation or rash occurs: Get medical advice/attention. IF ON SKIN: Wash with plenty of water. Dispose of contents/container in accordance with local/regional/national/international regulations.

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