

Technical Data Sheet

Recombinant Human Eotaxin

Product Information

Material Number:	555102
Size:	5 µg
Concentration:	0.1 mg/ml
Reactivity:	QC Testing: Human
Storage Buffer:	Frozen aqueous buffered solution containing BSA.

Description

Human eotaxin is a 74-amino acid protein with molecular weight of 8.4 kDa. Eotaxin belongs to the C-C chemokine family and is a potent and selective chemoattractant for eosinophils, but not monocytes, lymphocytes or neutrophils. C-C chemokine receptor 3 (CCR3) has been identified as the sole receptor for human eotaxin. Recombinant human eotaxin (Cat. No. 555102) is supplied as a frozen liquid comprised of 0.22 µm sterile-filtered aqueous buffered solution containing bovine serum albumin, with no preservatives. Recombinant human eotaxin is ≥ 95% pure as measured by SDS-PAGE and an absorbance assay based on the Beers-Lambert law. The endotoxin level is ≤ 0.1 ng per µg of human eotaxin protein, as measured in a chromogenic LAL assay.

Preparation and Storage

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

Rapidly thaw and quick-spin product prior to use.

Avoid multiple freeze-thaws of product.

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

Application Notes

Application

ELISA	Routinely Tested
Bioassay	Reported

Recommended Assay Procedure:

Upon initial thawing, recombinant human eotaxin (Cat. No. 555102) should be aliquoted into polypropylene microtubes and frozen at -80°C for future use. Alternatively, the product can be diluted in sterile neutral buffer containing not less than 0.5 - 1.0 mg/mL carrier protein, such as human or bovine serum albumin, aliquoted and stored at -80°C. Carrier proteins should be pre-screened for possible effects in each investigator's experimental system. Carrier proteins may have an undesired influence on experimental results due to toxicity, high endotoxin levels or possible blocking activity.

ELISA Standard: Recombinant human eotaxin (Cat. No. 555102) is useful as a quantitative standard for measuring human eotaxin protein levels using sandwich ELISA with Purified Mouse Anti-Human Eotaxin antibody clone 3C7 (Cat. No. 555035) as a capture antibody and Biotin Mouse Anti-Human Eotaxin antibody clone 10C11 (Cat. No. 555060) as the detection antibody. To obtain linear standard curves, investigators may want to consider using doubling dilutions of recombinant human eotaxin from 1,000 - 20 pg/mL to be included in each ELISA plate. For measuring human eotaxin in serum or plasma, investigators are highly encouraged to use the BD OptEIA™ Human Eotaxin Set (Cat. No. 555175).

Bioassay: Recombinant human eotaxin (Cat. No. 555102) has been reported to possess chemotactic activity for human eosinophils in chemotaxis assays. Investigators are advised that the bioassay application is not routinely tested for this material and are highly encouraged to both titrate and include appropriate controls in relevant experiments.

Suggested Companion Products

Catalog Number	Name	Size	Clone
555035	Purified Mouse Anti-Human Eotaxin	0.5 mg	3C7.LS42
555060	Biotin Mouse Anti-Human Eotaxin	0.5 mg	10C11
555175	Human Eotaxin ELISA Set	20 Plate(s)	(none)
558329	Human Eotaxin Flex Set	100 Tests	(none)
555214	TMB Substrate Reagent Set	1 Each	(none)

Product Notices

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

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References

Ponath PD, Qin S, Ringler DJ, et al. Cloning of the human eosinophil chemoattractant, eotaxin. Expression, receptor binding, and functional properties suggest a mechanism for the selective recruitment of eosinophils. *J Clin Invest.* 1996; 97(3):604-612. (Biology: Bioassay)

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