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Product Information

Eotaxin-2 Mouse, Recombinant

Product Number **E 9152**

Storage Temperature –20 °C

Product Description

Mouse eotaxin-2 (accession number AF244367) is expressed in *E. coli* as a 96 amino acid mature protein having a molecular weight of approximately 10.6 kDa.

Eotaxin-2 is a potent eosinophil chemotactic factor, with similar functions as eotaxin. Mouse eotaxin-2 is a constitutively expressed eosinophil chemokine that appears to be involved in homeostatic, allergen-induced, and IL-4 related immune responses. Mature mouse eotaxin-2 has 57% amino acid sequence similarity to human eotaxin-2.¹ Although the properties of mouse eotaxin-2 have not yet been fully investigated; human eotaxin-2 has been shown to act exclusively through the eotaxin receptor, CCR3. Human eotaxin-2 induces chemotaxis of basophils in addition to eosinophils, and induces the release of histamine and leukotriene C4 from IL-3 primed basophils.² It has also been demonstrated that human eotaxin-2 induces sustained detachment of eosinophil from VCAM-1 and conversely enhances adhesion to BSA.³

This product is lyophilized from a 0.2 µm filtered solution of 30% acetonitrile with 0.1% TFA containing 1.25 mg of bovine serum albumin.

The typical ED₅₀ concentration to induce chemotaxis of rat Y3 cells transfected with the CCR3 receptor is 0.2 to 0.8 µg/ml. Optimal concentration will need to be determined for each application.

Purity: >95% (SDS-PAGE)

Precautions and Disclaimer

This product is for laboratory use only. Please consult the Material Data Safety Sheet for information regarding hazards and safe handling practices.

Preparation Instructions

Reconstitute to a concentration of 25 µg/ml or greater using sterile phosphate buffered saline containing at least 0.1% human serum albumin or bovine serum albumin.

Storage/Stability

Stable for at least one year at –20 to –70 °C. Upon reconstitution, store sterile solutions at 2 to 4 °C for one month or at –20 to –70 °C for three months without detectable loss of activity. Avoid repeated freeze-thaw cycles.

References

1. Zimmermann, N., et al., Murine eotaxin-2: a constitutive eosinophil chemokine induced by allergen challenge and IL-4 over expression. *J. Immunol.*, **165**, 5839-5846 (2000).
2. Forssmann, U., et al., Eotaxin-2, a novel CC chemokine that is selective for the chemokine receptor CCR3, and acts like eotaxin on human eosinophil and basophil leukocytes. *J. Exp. Med.*, **185**, 2171-2176 (1997).
3. Tachimoto, H., et al., CCR3-active chemokines promote rapid detachment of eosinophils from VCAM-1 *in vitro*. *J. Immunol.*, **165**, 2748-2754 (2000).

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