

Recombinant Mouse CCL24/Eotaxin-2/MPIF-2 aa 27-119

Catalog Number: 1017-MP

DESCRIPTION	
Source	E. coli-derived Val27-Val119 Accession # Q9JKC0.1
N-terminal Sequence Analysis	Val27
Predicted Molecular Mass	10.3 kDa
SPECIFICATIONS	
Activity	Measured by its ability to chemoattract BaF3 mouse pro-B cells transfected with mouse CCR3. The ED ₅₀ for this effect is 1-5 ng/mL.
Endotoxin Level	<0.01 EU per 1 µg of the protein by the LAL method.
Purity	>97%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.
PREPARATION AND ST	TORAGE
Reconstitution	Reconstitute at 25 μg/mL in sterile PBS containing at least 0.1% human or bovine serum albumin.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

BACKGROUND

Eotaxin-2, also named myeloid progenitor inhibitory factor (MPIF-2), is a member of the CC chemokine subfamily and is designated CCL24. Eotaxin-2 is constitutively expressed in the jejunum and spleen. It can also be induced in the lung by allergen challenge and IL-4. LPS and IL-4 also differentially regulate the expression of Eotaxin-2 in monocytes and macrophages. Mouse Eotaxin-2 cDNA encodes a 119 amino acid (aa) residue precursor protein that shares approximately 58% aa sequence identity with human Eotaxin-2. Functionally, Eotaxin-2 is most closely related to Eotaxin/CCL11 and Eotaxin-3/CCL26. The three proteins share low sequence homology but have been shown to be potent eosinophil chemoattractants that bind and activate the chemokine receptor CCR3, a receptor that is highly expressed in eosinophils. Eotaxin-2 also has the ability to suppress myeloid cell proliferation, a biological function not shared by Eotaxin. Two amino-terminally-truncated isoforms of mouse Eotaxin-2 have been produced at R&D Systems. The Val27 - Val119 mouse Eotaxin-2 isoform has been shown to be 150-fold more potent than the Ile24 - Val119 isoform as a chemoattractant for mouse BaR/3 cells transfected with mouse CCR3 (1 - 3).

12 months from date of receipt, -20 to -70 °C as supplied.
1 month, 2 to 8 °C under sterile conditions after reconstitution.
3 months, -20 to -70 °C under sterile conditions after reconstitution.

References:

- 1. Zimmermann, N. et al. (2000) J. Immunol. 165:5839.
- 2. Watanabe, K. et al. (2002) J. Immunol. 168:1911.
- 3. Grzegorzewski, K.J. et al. (2001) Cytokine 13:209.

