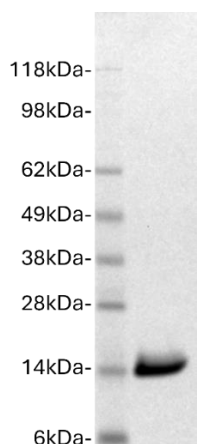


**Interleukin 4 (IL-4)** is a cytokine that functions as a potent regulator of immunity. It is secreted primarily by mast cells, Th2 cells, eosinophils, and basophils. IL-4 signals through the IL-4R  $\alpha$ -chain which activates several pathways. This activation can lead to B cell proliferation, survival of T and B cells and chemokine production. IL-4 has been shown to have a role in allergic asthma through its regulation of TH2 cell proliferation and IgE synthesis, and atopy or excessive IgE production has been associated with elevated levels of IL-4 in response to allergens.

| Description   |  |
|---|--|
| Source  | E. coli, His25-His132, with N terminal His-tag   |
| UniProt   | O77762   |
| Purity  | >99% by SDS-PAGE   |
| Predicted Molecular Mass  | 14.8 kDa   |
| SDS-PAGE  | 14.5 kDa   |
| Formulation   | Lyophilized from 1X PBS with Trehalose   |
| Preparation and Storage   |  |
| Reconstitution  | Reconstitute at 10 µg/mL in sterile PBS containing at least 0.1% protein                             |
| Shipping  | Ambient  |
| Storage   | 2 years at -80°C; 2 years at -20°C or 4°C<br>Upon reconstitution: 2 years at -80°C; 2 years at -20°C |
| Expiration  | See lot specific CoA   |
|  | Canine IL-4 (2µg) on a Coomassie stained 4-12% SDS-PAGE gel, reducing conditions.                    |

Ampersand Biosciences products may not be sequenced, reverse engineered, or investigated in any way to determine composition without the expressed written consent of Ampersand Biosciences.

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Rev 1.0

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