

For Research Use Only

Recombinant Canine CXCL8/IL-8 protein (rFc Tag)(HPLC verified)

Catalog Number: Eg4552



Basic Information

Species:
Canine

Purity:
>90 %, SDS-PAGE
 >90%, SEC-HPLC

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
 >90%, SEC-HPLC

Endotoxin Level:
<0.1 EU/µg protein, LAL method

Source:
HEK293-derived Canine CXCL8 protein Ala23-Pro101 (Accession# P41324) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
403850

Accession:
P41324

Predicted Molecular Mass:
35.4 kDa

SDS-PAGE:
36-42 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Interleukin-8 (IL-8), also known as CXCL8, is a member of the CXC chemokine family. This chemokine is secreted by a variety of cell types including monocytes/macrophages, T cells, neutrophils, fibroblasts, endothelial cells and various tumour cell lines in response to inflammatory stimuli. IL-8 has two main functions. It induces chemotaxis in target cells, primarily neutrophils but also other granulocytes, causing them to migrate to the site of infection. IL-8 also induces phagocytosis once they have arrived. This gene is thought to play a role in the pathogenesis of bronchiolitis, a common respiratory disease caused by viral infection. IL-8 is also known to be a potent promoter of angiogenesis. IL-8 has been implicated in tumour angiogenesis, metastasis and poor prognosis in breast cancer. IL-8 may represent a novel therapeutic target for estrogen-driven breast carcinogenesis and tumour progression.

References

1. Ha H. et al. (2017) Theranostics. 7(6):1543-1588.
2. Matsushima K. et al. (2022) Cytokine. 153:155828.
3. Todorović-Raković N. et al. (2013) J Interferon Cytokine Res. 33(10):563-70.
4. Tatsuno R. et al. (2024) Cell Death Dis. 15(7):471.

Synonyms

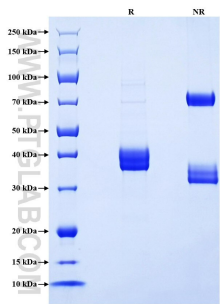
CXCL8, IL-8, IL8, Interleukin-8

For technical support and original validation data for this product please contact

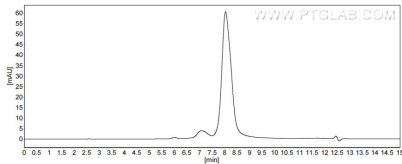
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Selected Validation Data



Purity of Recombinant Canine CXCL8 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



The purity of Canine CXCL8/IL-8 was greater than 90% as determined by SEC-HPLC.