

Recombinant Human CXCL2 / C-X-C Motif Chemokine Ligand 2,

Animal Free & Carrier Free

Cat #: C-CYP342

Size: 5µg, 20µg, 100µg, 500µg, 1mg

Shipping: Blue Ice

Product Overview

CXCL2 is an ELR CXC chemokine. The structural and functional characteristics of CXCL2 have relationship with GRO1 (CXCL1), GRO3 (CXCL3), and interleukin-8 (CXCL8). It is produced by activated monocytes, neutrophils and macrophages. In addition, it also expresses at sites of inflammation. It has been detected that CXCL2 is highly expressed in serum of patients with the disease "esophageal squamous cell carcinoma" (ESCC).

Product Information

Source: *Escherichia Coli*.

Purity: >98% as determined by SDS-PAGE. Ni-NTA chromatography.

Biological Activity: Measure by its ability to chemoattract human PBMCs using a concentration range of 10-100 ng/mL.

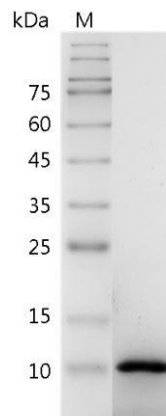
Note: Results may vary from different PBMC donors.

Endotoxin: <0.1EU per 1µg of the protein by the LAL method.

Amino acid sequence: APLATELRCQCLQTLQGIHLKNIQSVKVKSPGPHCAQTEVIATLKNQKACLNPASPMVKKIIEKMLKNGKSN

with polyhistidine tag at the N-terminus.

Formulation: Lyophilized from a sterile filtered aqueous solution in 1xPBS, pH 7.4.



SDS-PAGE analysis of recombinant human CXCL2

Usage Method

1. Before opening, it is recommended to centrifuge at 3000-3500 rpm for 5 minutes.
2. Reconstitute to a concentration of 0.1-1.0 mg/mL in sterile distilled H₂O. Allow the solution to sit at room temperature for at least 20 minutes to ensure complete dissolution. Avoid vigorous vortexing.
3. The reconstituted solution can be stored at 2-8°C for up to 1 week.
4. For long-term storage, it is recommended to further dilute the solution with a carrier protein (such as 0.1% BSA, 10% FBS, or 5% HSA) to a concentration of no less than 10 µg/mL and aliquot for storage at -20°C to -80°C for 3 to 6 months. If serum-free experiments are required, a 5% trehalose solution can be used as a carrier instead. Avoid repeated freeze-thaw cycles.

Storage

Physical Appearance	Storage	Stability
Lyophilized powder	-20°C to -80°C	1 year
Reconstitution (initial)	2°C to 8°C	Less than 1 week
Reconstitution (after dilution)	-20°C to -80°C	3 to 6 months

Note

The reagent is only used in the field of scientific research, not suitable for clinical diagnosis or other purposes.