

Recombinant Human CXCL3 / C-X-C Motif Chemokine Ligand 3,

Animal Free & Carrier Free

Cat #: C-CYP228

Size: 5µg, 20µg, 100µg, 500µg, 1mg

Shipping: Blue Ice

Product Overview

CXCL3 is an ELR CXC chemokine. Its structural and functional characteristics are similar to GRO1 (CXCL1), GRO2 (CXCL2), and interleukin-8 (CXCL8). CXC chemokines are critical in the phase I inflammation, in which the PMN cells are rapidly chemoattracted. In the next phase of inflammation, the CC chemokines (MCPs) attract different cell subpopulations such as T cells, monocytes, basophils, and eosinophils. MMP12, primarily released by macrophages, can modulate the activity of ELR-CXC chemokines and cleavage human CXCL1, CXCL2 and CXCL3 within the ELR sequence at Glu6-Leu7.

Product Information

Source: *Escherichia Coli*.

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

Biological Activity: Measure by its ability to chemoattract BaF3 cells transfected with human CXCR2. The ED₅₀ for this effect is < 2 ng/mL.

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

Amino acid sequence: ASVVTELRCQCLQTLQGIHLKNIQSVNVRSPGPHCAQTEVIATLKNGKKAACLNPASPMVQKIIEKILNKGSTN

with polyhistidine tag at the N-terminus.

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



SDS-PAGE analysis of recombinant human CXCL3

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.