

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant GRO- γ /CXCL3, Human(CHO-expressed)

Catalog Number: BK0217-10 μ g

Source: CHO

Quantity: 10 μ g

Description:

Chemokine (C-X-C motif) ligand 3 (CXCL3) is a small cytokine belonging to the CXC chemokine family that is also known as GRO3 oncogene (GRO3), GRO protein gamma (GRO γ) and macrophage inflammatory protein-2-beta (MIP2b). CXCL3 controls migration and adhesion of monocytes and mediates its effect on its target cell by interacting with cell surface chemokine receptor CXCR2. It has been shown that CXCL3 regulates the migration of precursors of cerebellar granule neurons toward the internal layers of the cerebellum, during morphogenesis. Recombinant human GRO-gamma/CXCL3 produced in CHO cells is a polypeptide chain containing 73 amino acids. A fully biologically active molecule, rhGRO-gamma/CXCL3 has a molecular mass of 9kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Molecular Weight:

9 kDa, observed by reducing SDS-PAGE.

Purity:

> 98% as analyzed by SDS-PAGE.

Biological Activity:

The EC₅₀ value of human GRO-gamma/CXCL3 on Ca²⁺ mobilization assay in CHO-K1/Ga15/hCXCR2 cells (human Ga15 and human CXCR2 stably expressed in CHO-K1 cells) is less than 200 ng/ml.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

ASVVTELRCQCLQTLQGIHLK-
NIQSVNVRSPGPHCAQTEVIATLK-
NGKKACLNPASPMVQKIIEKILNKGSTN

Endotoxin:

< 0.2 EU/ μ g, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O or PBS at 100 μ g/ml.

Storage:

Lyophilized recombinant Human GRO-gamma/CXCL3 remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, Human GRO-gamma/CXCL3 should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.

Usage:

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