

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant GRO- β /CINC-3/CXCL2, Rat

Catalog Number: BK0071-1mg

Source: Escherichia coli.

Quantity: 1mg

Description:

Chemokine (C-X-C motif) ligand 2 (CXCL2) is a small cytokine belonging to the CXC chemokine family that is also called macrophage inflammatory protein 2-alpha (MIP2-alpha), Growth-regulated protein beta (Gro-beta) and Gro oncogene-2 (Gro-2). CXCL2 shares 90% amino acid sequence with CXCL1/GRO α . The GRO proteins are chemotactic for neutrophils and basophils and can activate them through their CXCR1 or CXCR2 receptors. Recombinant Rat GRO- β /CINC-3/CXCL2 produced in E.coli is a single non-glycosylated polypeptide chain containing 69 amino acids. A fully biologically active molecule, rrGRO- β has a molecular mass of 7.6kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Molecular Weight:

7.6 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% as analyzed by SDS-PAGE.

Biological Activity:

The EC50 value of Rat GRO- β /CINC-3/CXCL2 on Ca²⁺ mobilization assay in CHO-K1/G α 15/rCXCR2 cells (human G α 15 and rat CXCR2 stably expressed in CHO-K1 cells) is less than 10 ng/ml.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

SELRCQCLTTLPRVDFKNIQSLTVTPPGPHCAQ-
TEVI-
ATLKDGHVCLNPEAPLVQRIVQKILNKGKAN

Endotoxin:

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

Reconstitution:

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

Storage:

Lyophilized recombinant Rat GRO- β /CINC-3/CXCL2 remains stable up to 6 months at -80 $^{\circ}$ C from date of receipt. Upon reconstitution, Rat GRO- β /CINC-3/CXCL2 should be stable up to 1 week at 4 $^{\circ}$ C or up to 3 months at -20 $^{\circ}$ C.

Usage:

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