

**DATASHEET**  
Version 20181206**GRO- $\beta$ /CINC-3/CXCL2, Rat****Cat. No.:** Z03279-1**Size:** 1.0 mg

**Synonyms:** Growth Regulated Protein/Melanoma Growth Stimulatory Activity (MGSA $\beta$ ), CXCL2, MIP-2, GRO2, CINC-3

**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 $\alpha$ . The GRO proteins are chemotactic for neutrophils and basophils and can activate them through their CXCR1 or CXCR2 receptors.

Recombinant Rat GRO- $\beta$ /CINC-3/CXCL2 produced in *E.coli* is a single non-glycosylated polypeptide chain containing 69 amino acids. A fully biologically active molecule, rrGRO- $\beta$  has a molecular mass of 7.6kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

**Source:** *E. coli*

**Biological Activity:** The EC<sub>50</sub> value of Rat GRO- $\beta$ /CINC-3/CXCL2 on Ca<sup>2+</sup> mobilization assay in CHO-K1/G $\alpha$ 15/rCXCR2 cells (human G $\alpha$ 15 and rat CXCR2 stably expressed in CHO-K1 cells) is less than 10 ng/ml.

**Molecular Weight:** 7.6 kDa, observed by reducing SDS-PAGE.

**Formulation:** Lyophilized after extensive dialysis against PBS.

**Reconstitution:** Reconstituted in ddH<sub>2</sub>O or PBS at 100  $\mu$ g/ml.

**Purity:** > 95% as analyzed by SDS-PAGE.

**Endotoxin Level:** < 0.2 EU/ $\mu$ g, determined by LAL method.

**Storage:** Lyophilized recombinant Rat GRO- $\beta$ /CINC-3/CXCL2 remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Rat GRO- $\beta$ /CINC-3/CXCL2 should be stable up to 1 week at 4°C or up to 3 months at -20°C.