

Rev03  
Update: Dec,14,2021

**DATASHEET**

# GRO- $\beta$ /CINC-3/CXCL2, Rat

Cat. No.: Z03279

## Product Introduction

<b>Species</b>	Rat
<b>Protein Construction</b>	<b>GRO-<math>\beta</math> (Ser32-Asn100)</b> Accession # P30348
<b>Purity</b>	> 95% as analyzed by SDS-PAGE
<b>Endotoxin Level</b>	< 0.2 EU/ $\mu$ g of protein by gel clotting method
<b>Biological Activity</b>	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 10.0 ng/ml.
<b>Expression System</b>	E. coli
<b>Apparent Molecular Weight</b>	~7.6 kDa, on SDS-PAGE under reducing conditions.
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH <sub>2</sub> O or PBS up to 100 $\mu$ g/ml.
<b>Storage &amp; Stability</b>	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

## Background

**Target Background** : 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.

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

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.