

Overview

Synonyms	Growth Regulated Protein/Melanoma Growth Stimulatory Activity (MGSA ²), CXCL2, MIP-2, GRO2, CINC-3
Description	<p>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±. The GRO proteins are chemotactic for neutrophils and basophils and can activate them through their CXCR1 or CXCR2 receptors.</p> <p>Recombinant Rat GRO-² /CINC-3/CXCL2 produced in <i>E.coli</i> is a single non-glycosylated polypeptide chain containing 69 amino acids. A fully biologically active molecule, rrGRO-² has a molecular mass of 7.6kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.</p>
Source	<i>E. coli</i>
Biological Activity	The EC ₅₀ value of Rat GRO- ² /CINC-3/CXCL2 on Ca ²⁺ mobilization assay in CHO-K1/G±15/rCXCR2 cells (human G±15 and rat CXCR2 stably expressed in CHO-K1 cells) is less than 10 ng/ml.
Sequence	Ser ³² -Asn ¹⁰⁰ (Accession #:P30348)

Properties

Measured Molecular Weight	7.6 kDa, observed by reducing SDS-PAGE.
Purity	> 95% as analyzed by SDS-PAGE.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/ml.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant Rat GRO-² /CINC-3/CXCL2 remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Rat GRO- ² /CINC-3/CXCL2 should be stable up to 1 week at 4°C or up to 3 months at -20°C.
Note	For research use only

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