

Overview

Synonyms	Growth Regulated Protein/Melanoma Growth Stimulatory Activity (MGSA ³), CXCL3, GRO gamma, CINC-2, DCIP-1, GRO3
Description	Chemokine (C-X-C motif) ligand 3 (CXCL3) is a small cytokine belonging to the CXC chemokine family that is also known as MIP2 ² (macrophage inflammatory protein 2 beta), or DCIP1 (dendritic cell inflammatory protein1) in mouse, CINC-2 (cytokine-induced neutrophil attractant 2) in rat, or GRO ³ (growth-regulated oncogene gamma) in human. CXCL3 controls migration and adhesion of monocytes and mediates its effects on target cells by interacting with the cell surface chemokine receptor CXCR2. It has been shown that CXCL3 regulates cerebellar granule neuron precursors toward the internal layers of the cerebellum during cerebellum morphogenesis. CXCL3 is a potential target for medulloblastoma therapy. CXCL3 is regulated transcriptionally by BTG2. Recombinant Rat CINC-2±/CXCL3 produced in CHO cells is a polypeptide chain containing 68 amino acids. A fully biologically active molecule, rrCINC-2±/CXCL3 has a molecular mass of 7.6 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.
Accession No	Q10746
Species	Rat
Source	CHO
Biological Activity	The EC ₅₀ value of rat CINC-2±/CXCL3 on Ca ²⁺ mobilization assay in CHO-K1/Gα15/rCXCR2 cells (human Gα15 and ratCXCR2 stably expressed in CHO-K1 cells) is less than 100 ng/ml.
Sequence	RELRCQCLKT LPRVDFENIQ SLTVTPPGPH CTQTEVIATL KDGQEVCLNP QAPRLQKIIQ KLLKSDKS

Properties

Measured Molecular Weight	7.6 kDa, observed by reducing SDS-PAGE.
Purity	> 98% 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 CINC-2±/CXCL3 remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, recombinant Rat CINC-2±/CXCL3 should be stable up to 1 week at 4°C or up to 2 months at -20°C.
Note	For research use only

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