

GRO-Beta Mouse Recombinant (CXCL2)

Item Number	rAP-0160
Synonyms	Macrophage inflammatory protein 2-alpha, MIP2-alpha, CXCL2, Growth- regulated protein beta, Gro-beta, chemokine (C-X-C motif) ligand 2, GRO2, GROb, MIP2, MIP2A, SCYB2, MGSA-b, MIP-2a, CINC-2a, MGSA beta.
Description	GRO-Beta Mouse Recombinant also called mouse MIP-2 produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 73 amino acids and having a molecular mass of 7849 Dalton. The CXCL2 is purified by proprietary chromatographic techniques.
Uniprot Accession Number	P10889
Amino Acid Sequence	AVVASELRQC CLKTLPRVDF KNIQSLSVTP PGPHCAQTEV IATLKGGQKV CLDPEAPLVQ KIIQKILNKG KAN.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized CXCL2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CXCL2 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Formulation and Purity	The protein was lyophilized from a concentrated (1.0mg/ml) solution in 20mM PB, pH 7.4, 150mM NaCl. Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized GRO-beta Mouse in sterile 18MΩ-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The Biological activity was determined by its ability to chemoattract total human neutrophils using a concentration range of 1.0-10.0 ng/ml, corresponding to a specific activity of 105-106 units/mg.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**