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Datasheet for 009-001-V16-1000

rHuman Gro-Beta /CXCL2 Protein

Overview

Description:	Human Gro-beta (CXCL2) Recombinant Protein - 009-001-V16-1000
Item No.:	009-001-V16-1000
Size:	1 mg
Applications:	Cellular Assay
Origin:	Human
Expressed in:	E. coli

Product Details

Background:	Three human MGSA/GRO genes encode 3 highly related chemokines, MGSA/GRO α, -β and -g. All 3 MGSA/GRO proteins bind to the same receptors, but with differing affinities, and stimulate a number of biological responses including chemotaxis, angiogenesis, and growth regulation. Recombinant human GROβ is a non-glycosylated protein, containing 73 amino acids, with a molecular weight of 7.9 kDa.
Synonyms:	MGSAβ, Macrophage inflammatory protein 2-alpha (MIP-2α), Growth-regulated protein beta (Gro-beta), GRO2
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein
Low Endotoxin:	Yes

Target Details

Gene Name:	CXCL2
Purity/Specificity:	Gro-beta (CXCL2) purity was determined to be greater than 98% as determined by HpLC and by reducing and non-reducing SDS-pAGE.
Relevant Links:	• UniProtKB - P19875

Application Details

Suggested Applications:	Cellular Assay (Based on references)
Application Note:	Gro-beta Recombinant Protein has been tested by biological activity and is suitable as a control for polyclonal or monoclonal anti-Gro-beta in immunological assays.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
Other:	Endotoxin Level: Measured by kinetic LAL analysis and is typically ≤ 1 EU/µg protein. Biologic Activity: The activity is determined by the ability to chemoattract human neutrophils at concentrations between 10-100 ng/mL.

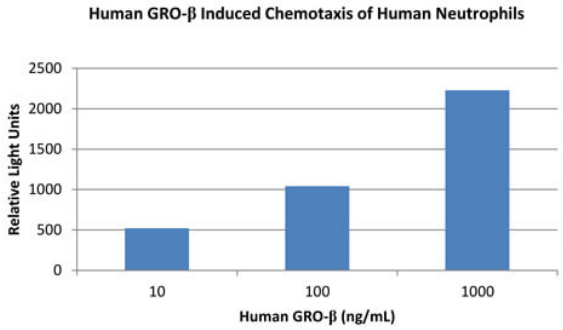
Formulation

Physical State:	Lyophilized
Buffer:	0.1% Trifluoroacetic acid
Preservative:	None
Stabilizer:	None
Reconstitution Volume:	1.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.
Expiration:	Expiration date is six (6) months from date of receipt.

Images



SDS-PAGE

Bioactivity of Human Gro-beta (CXCL2) Recombinant Protein. Triplicate samples of primary human neutrophils from three donors were allowed to migrate to Human GRO-β/CXCL2 (10, 100 and 1000 ng/mL). After 30 minutes, cells that migrated were counted using a luminescent substrate and displayed on the bar graph above. Significant levels of migration over basal were seen in response to Human GRO-β/CXCL2 starting at 10 ng/mL.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.