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Datasheet for 009-001-V17-0010

rHuman Gro-gamma/MIP-2Beta Protein

Overview

Description:	Human Gro g / Macrophage Inflammatory Protein-2 beta Recombinant Protein - 009-001-V17-0010
Item No.:	009-001-V17-0010
Size:	10 µg
Origin:	Human
Expressed in:	E. coli

Product Details

Background:	Growth Regulated Proteins (GRO) are a group of three proteins, GRO-α, -β and –g, that are encoded by three distinct genes. All 3 GRO proteins can bind to the same receptors, but with differing affinities, and stimulate a number of biological responses including chemotaxis, angiogenesis, and growth regulation. More specifically, GRO gamma (also called CXCL3), can act through chemokine receptor CXCR2 to promote monocyte migration and adhesion. Recombinant human GRO gamma is a non-glycosylated protein, containing 73 amino acids, with a molecular weight of 7.9 kDa.
Synonyms:	Macrophage inflammatory protein 2-beta (MIP-2β), Growth-regulated protein gamma(GRO-gamma), GRO3
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein
Low Endotoxin:	Yes

Target Details

Gene Name:	CXCL3
Purity/Specificity:	Gro g / Macrophage Inflammatory protein-2 beta purity was determined to be greater than 98% as determined by reducing and non-reducing SDS-pAGE.
Relevant Links:	• UniProtKB - P19876

Application Details

Application Note:	GRO-gamma Recombinant Protein is suitable as a control for polyclonal or monoclonal anti-GRO-gamma 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:	0.01 M Sodium Phosphate, pH 7.5
Preservative:	None
Stabilizer:	None
Reconstitution Volume:	10µl (10-100µl)
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.

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.