

Datasheet for 010-001-B54-0.1**IL-27/p28 Mouse Recombinant Protein****Overview**

Description:	IL-27/p28 Mouse Recombinant Protein - 010-001-B54-0.1
Item No.:	010-001-B54-0.1
Size:	100 µg
Applications:	SDS-PAGE
Origin:	Mouse
Expressed in:	E. coli

Product Details

Background:	Mouse IL-27/p28 Subunit, also known as Interleukin-30, is a member of the IL-12 family of cytokines. When combined with EB13 (Epstein-Barr virus induced gene 3), the heterodimer formed is IL-27. Mouse p28 is a proinflammatory cytokine inducing immunomodulatory effects. Current research is underway to delineate specific biological functions. Recombinant mouse p28 is a single-chain 207 amino acid peptide with a mass of approximately 23,697 Daltons.
Synonyms:	Interleukin-27 subunit alpha, IL-27 subunit alpha, IL-27-A cytokine, IL27-A, p28, IL-30
Species of Origin:	Mouse
Expressed in:	E. coli
Type:	Recombinant Protein
Low Endotoxin:	Yes

Target Details

Gene Name:	IL27
Purity/Specificity:	Purity was determined to be approximately 97% as determined by reducing and non-reducing SDS-PAGE.
Relevant Links:	• UniProtKB - Q8K3I6 • NCBI

Application Details

Tested Applications:	SDS-PAGE
Application Note:	IL-27/p28 protein has been tested by SDS-PAGE and is suitable as a control for polyclonal or monoclonal anti-IL-27/p28 in immunological assays. Buffer Formulation: 10 mM sodium bicarbonate, pH 8.5.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
Other:	Biological Activity: Mouse p28 biological activity was measured via dose-dependent inhibition of TGF β and IL-6-induced IL-17A expression in mouse CD4 splenocytes. 50ng/ml of Mouse p28 is capable of inhibiting >25% of IL-17A expression in this assay. no acceptance criteria limits established. Endotoxin Level: Measured by LAL is typically ≤ 1 EU/ μ g (with a 50% confidence range).

Formulation

Physical State:	Lyophilized
Concentration:	0.1 mg/mL by UV absorbance at 280 nm
Buffer:	See application note.
Preservative:	None
Stabilizer:	None
Reconstitution Volume:	100 μ L
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.