

Datasheet for 010-F01-B54-0100**rMouse IL-27 (p28) Protein****Overview**

Description:	Mouse Interleukin-27 (p28) Recombinant Protein (Animal Free) - 010-F01-B54-0100
Item No.:	010-F01-B54-0100
Size:	100 µg
Applications:	SDS-PAGE
Origin:	Mouse
Expressed in:	E. coli

Product Details

Background:	The p28 subunit of IL-27 (IL-27/p28), also known as Interleukin-30 (IL-30), is a member of the IL-12 family of cytokines. When combined with EB13 (Epstein-Barr virus induced gene 3), p28 forms a heterodimer known as IL-27. p28 is thought to be a pro-inflammatory cytokine inducing immuno-modulatory effects, but the details of these effects are currently unclear and research is focused on delineating its specific biological functions. Recombinant mouse p28 is a non-glycosylated protein, containing 207 amino acids, with a molecular weight of 23.7 kDa.
Synonyms:	IL-30, P28, IL-27 p28 subunit
Species of Origin:	Mouse
Expressed in:	E. coli
Type:	Recombinant Protein
Low Endotoxin:	Yes

Target Details

Gene Name:	IL27
Purity/Specificity:	The p28 subunit of IL-27 is produced with no animal-derived raw products, animal free equipment and animal free protocols. Purity was determined to be greater than 97% as determined by reducing and non-reducing SDS-PAGE.
Relevant Links:	• UniProtKB - Q8K3I6

Application Details

Tested Applications:	SDS-PAGE
Application Note:	Interleukin-27 Recombinant Protein has been tested by SDS-PAGE and is suitable as a control for polyclonal or monoclonal anti-Interleukin-27 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).

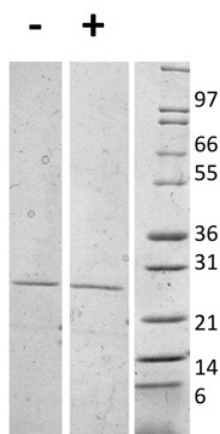
Formulation

Physical State:	Lyophilized
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.

Images



SDS-PAGE

SDS-PAGE of Mouse Interleukin-27 (p28) Animal Free Recombinant Protein. Lane 1: 1 µg Mouse IL-27/p28 AF in non-reducing conditions (-). Lane 2: 1 µg Mouse IL-27/p28 AF in reducing conditions (+). Lane 3: Molecular weight marker. Mouse IL-27/p28 AF subunit is subunit with a predicted MW of 23.7 kDa.

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.