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Datasheet for 010-001-B66

IL-35 EBI3 Mouse Recombinant Protein

Overview

Description:	EBI-3 Mouse Recombinant Protein - 010-001-B66
Item No.:	010-001-B66
Size:	10 µg
Applications:	SDS-PAGE, Other
Origin:	Mouse
Expressed in:	E. coli

Product Details

Background:	Epstein-Barr Virus Induced Gene-3 (EBI-3), is a secreted glycoprotein belonging to the hematopoietin receptor family and related to the p40 subunit of IL-12. It was identified by its induced expression in B-lymphocytes in response to Epstein-Barr virus infection. EBI-3 forms heterodimers with p28 to form IL-27 and with p35 to form IL-35. Both IL-27 and IL-35 have anti-inflammatory and regulatory activity. Recombinant Mouse EBI is a non-glycosylated polypeptide chain consisting of 207 amino acids with a molecular weight of 22,900 Da.
Synonyms:	Interleukin-27 subunit beta precursor [Mus musculus], mouse EBI-3 cytokine, EBI3, EBI-3, IL35, IL-35
Species of Origin:	Mouse
Expressed in:	E. coli
Type:	Recombinant Protein
Low Endotoxin:	Yes

Target Details

Gene Name:	Ebi3
Purity/Specificity:	Recombinant protein corresponding to amino acids 2 to 207 of mature mouse EBI-3. Purity is greater than 90% as determined by reducing and non-reducing SDS-PAGE and by analytical HPLC, each against a known standard.
Relevant Links:	• UniProtKB - O35228

- GeneID - 50498

Application Details

Tested Applications:	SDS-PAGE
Suggested Applications:	Other (Based on references)
Application Note:	EBI-3 protein has been tested by SDS-PAGE and is suitable as a control for polyclonal or monoclonal anti-EBI-3 in immunological assays.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
Other:	Biological Activity: Assay data for mouse recombinant EBI-3 is based upon qualitative binding to anti-EBI-3 antibody. Endotoxin Level: Measured by LAL is <0.01ng/µg or <0.1EU/µg.

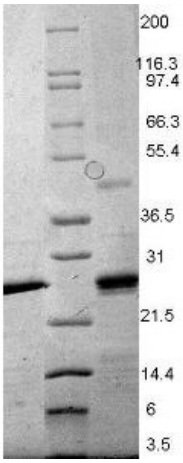
Formulation

Physical State:	Lyophilized
Concentration:	0.1 mg/mL by UV absorbance at 280 nm
Buffer:	0.1% Trifluoroacetic acid
Preservative:	None
Stabilizer:	None
Reconstitution Volume:	100 µL
Reconstitution Buffer:	0.02M HCl

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at -20° 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 using Rockland's Recombinant Mouse EBI-3 Protein shows bands corresponding to EBI-3 (1µg) in lane 1 (unreduced, arrowhead) and lane 3 (reduced). Molecular weight estimation was made by comparison to prestained MW markers, lane 2

References

- Nikolic I et al. Lack of p38 activation in T cells increases IL-35 and protects against obesity by promoting thermogenesis. *EMBO Rep.* (2024)

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