

Datasheet for ABIN2667513 **IL23 Protein (AA 1-196, AA 1-335)**



Overview

Quantity:	10 μg
Target:	IL23
Protein Characteristics:	AA 1-196, AA 1-335
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Flow Cytometry (FACS)
Product Details	
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Purity:	Purity is >95 % , as determined by Coomassie stained SDS-PAGE.
	Purity is >95 %, as determined by Coomassie stained SDS-PAGE. 0.22 µm filtered
Purity:	
Purity: Sterility:	0.22 μm filtered
Purity: Sterility: Endotoxin Level:	0.22 μm filtered
Purity: Sterility: Endotoxin Level: Target Details	0.22 μm filtered Less than 0.01 ng per μg cytokine as determined by the LAL method.

Target Details

is limited by the expression of p40 and not p19. IL-23 exerts its biological activities through the interaction with a heterodimeric receptor complex composed of IL-12Rb1 and IL-23R. IL-23 activates Janus kinase (JAK)/signal transducer and activator of transcription signaling molecules (STAT). JAK2 is constitutively associated with the IL-23R chain, and binding of IL-23 to its receptor leads to phosphorylation of STAT1, STAT3, STAT4, and STAT5.

Molecular Weight:

The total predicted molecular weight is 55.4 kDa. The non-reduced protein migrates at approximately 60 kDa and the DTT-reduced protein produces two bands at approximately 19 kDa (Leu 20-Ala 196) and 40 kDa (Met 23-Ser 335) by SDS-PAGE.

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Biological activity: ED50 ≤1.5 ng/ml, corresponding to a specific activity of ≥0.66 x 106
	units/mg, as determined by mouse splenocytes IL-17A secretion induced by mIL-23 in a dose
	dependent manner.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Reconstitution:	For maximum results, quick spin vial prior to opening. The protein can be aliquoted and stored from -20 °C to -70 °C. Stock solutions can also be prepared at 50-100 μ g/mL in sterile buffer (PBS, HPBS, DPBS, or EBSS) containing carrier protein such as 0.2-1 % BSA or HSA and stored in working aliquots at -20 °C to -70 °C.
Buffer:	0.22 μm filtered protein solution is in PBS
Handling Advice:	Avoid repeated freeze/thaw cycles.
Storage:	-20 °C
Storage Comment:	Unopened vial can be stored between 2°C and 8°C for one month, at -20°C for six months, or at -70°C for one year.