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## Datasheet for ABIN2666739 IL36A/IL1F6 Protein (AA 6-158)



Overview

Quantity:	10 µg
Target:	IL36A/IL1F6 (IL1F6)
Protein Characteristics:	AA 6-158
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Flow Cytometry (FACS), Intracellular Flow Cytometry (ICFC)
Product Details	
Purity:	> 97 % , as determined by Coomassie stained SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 0.01 ng per $\mu$ g cytokine as determined by the LAL method.
Target Details	
Target:	IL36A/IL1F6 (IL1F6)
Alternative Name:	IL-36 alpha (IL1F6 Products)
Background:	IL-36a is one of the IL-36 cytokines that are part of the IL-1 family. Like other IL-1 family members, IL-36a requires N-terminal processing to gain full bioactivity, currently, the proteases responsible for processing IL-36a are unknown. IL-36a signals through IL-36R/IL-1RAcP, which results in MAPK, Erk1/2, and JNK activation. IL-36a is implicated in skin homeostasis, and it is
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	overexpressed in psoriatic lesional skin. Transgenic mice overexpressing IL-36 $\alpha$ in skin have an
	inflammatory skin condition showing some characteristics of human psoriasis, including
	thickened scaly skin, acanthosis, hyperkeratosis, and dermis infiltration. EGF regulates the
	expression of IL-36a in the skin. IL-36a can also be detected in adipose tissue. IL-36a reduces
	adipocyte differentiation and also induces inflammatory gene expression in mature adipocytes.
	In lungs, the expression of IL-36 $\alpha$ is increased in response to inflammatory stimuli. Intratracheal
	instillation of recombinant mouse IL-36 $\alpha$ induces CXCL1 and CXCL2 expression and also
	neutrophil influx in the lungs. IL-36a, IL-36β, and IL-36γ induce in vitro expression of RNA of
	multiple cytokines (IL-6, IL-12 p40, CXCL1, CCL1, IL-12 p35, IL-1b, IL-19 p19, GM-CSF, CXCL10,
	TNFa, CCL3, VCAM-1, and ICAM-1) in mouse bone marrow-derived dendritic cells and CD4 T $$
	cells obtained from normal mice. IL-36 $\alpha$ expression is elevated in chronic kidney disease and in
	rheumatoid arthritis synovium, and decreased expression correlates with a poor prognosis in
	hepatocellular carcinoma.
Molecular Weight:	The 153 amino acid recombinant protein has a predicted molecular mass of approximately 17
	kDa. The DTT-reduced and non-reduced protein migrate at approximately 17 kDa by SDS-PAGE.
	The predicted N-terminal amino acid is Lys.
Pathways:	Cancer Immune Checkpoints

## Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Biological activity: The ED50 is 20 - 50 ng/ml, corresponding to a specific activity 2 - 5 x 104 units/mg, as determined by a dose-dependent stimulation of IL-8 secretion in human preadipocytes.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Reconstitution:	For maximum results, quick spin vial prior to opening. Stock solutions should be prepared at no less than 10 µg/mL in sterile buffer (PBS, HPBS, DPBS, and EBSS) containing carrier protein such as 1 % BSA or HSA.
Buffer:	0.22 µm filtered protein solution is in 20 mM Hepes pH 7.2, 150 mM NaCl, 10 mM TCEP.

Handling Advice: Avoid repeated freeze/thaw cycles.

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## Handling

Storage:	-20 °C
Storage Comment:	Unopened vial can be stored between 2°C and 8°C for one week, at -20°C for three months, or
	at -70°C for 6 months.