

Datasheet for ABIN1343995  
**FIL1d Protein (AA 3-156)**[Go to Product page](#)

## 1 Image

## Overview

Quantity:	10 µg
Target:	FIL1d
Protein Characteristics:	AA 3-156
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	SDS-PAGE (SDS)

## Product Details

Cross-Reactivity:	Mouse (Murine)
Characteristics:	Mouse IL36Ra (aa Val3-Asp156) is untagged.
Purity:	>95 % (SDS-PAGE)
Endotoxin Level:	<0.05EU/µg purified protein (LAL test, Lonza).

## Target Details

Target:	FIL1d
Alternative Name:	IL-36Ra ( <a href="#">FIL1d Products</a> )
Background:	IL-36Ra/IL-1F5 is a highly and a specific antagonist of the IL-1 receptor-related protein 2-mediated response to IL-36alpha (IL-1F6), IL-36beta (IL-1F8) and IL-36gamma (IL-1F9). These

## Target Details

cytokines bind to IL-36R (IL-1Rrp2) and IL-1RAcP, activating similar intracellular signals as IL-1. IL-36Ra inhibits the production of proinflammatory cytokines, including IL-12, IL-1beta, IL-6, TNF-alpha and IL-23 induced by IL-36 in BMDC and CD4 T cells. Skin and dendritic cells are target of the IL-36 interleukins leading to a Th1 response. Recently mutations that affect the levels and the activity of IL-36Ra have been found in patients with pustular psoriasis, leading to enhanced production of inflammatory cytokines (IL-8 in particular) by keratinocytes.

Molecular Weight: ~17kDa

UniProt: [Q9QYY1](#)

## Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Comment: Inhibits the IL-6 induced expression of IL-36alpha (IL-1F6), IL-36beta (IL-1F8), and IL-36gamma (IL-1F9) in BMDCs. 1µg/ml of IL-36Ra inhibits the activity of 10 ng to 100 ng/ml of the agonists.

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Reconstitution: Reconstitute with 100 µL sterile water.

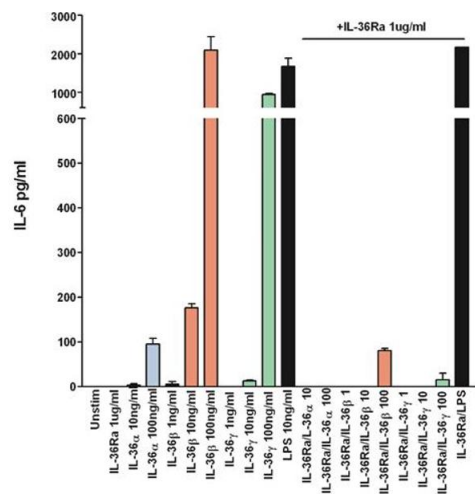
Concentration: Lot specific

Buffer: Lyophilized. Contains PBS.

Storage: 4 °C, -20 °C

Storage Comment: Short Term Storage: +4°C  
Long Term Storage: -20°C  
Stable for at least 6 months after receipt when stored at -20°C.

Expiry Date: 6 months



**ELISA**

**Image 1.** IL-36Ra (aa 3-156) (mouse) (rec.) inhibits IL-36α, IL-36β, IL-36γ-dependent expression of IL-6 in mouse BMDCs. Method: Bone marrow cells were differentiated into bone marrow-derived dendritic cells (BMDCs) using GM-CSF (20ng/ml) for 10 days. BMDCs were cultured with or without IL-36Ra, IL-36α, IL-36β, IL-36γ, or LPS at indicated concentrations for 72 h. Cell supernatants were then harvested and IL-6 levels determined by ELISA.