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Datasheet for ABIN1344457  
**Flagellin Protein (FliC)**

### Overview

Quantity:	10 µg
Target:	Flagellin (FliC)
Origin:	Human, Mouse
Source:	Salmonella typhimurium
Biological Activity:	Active
Application:	SDS-PAGE (SDS)

### Product Details

Specificity:	Binds to human and mouse TLR5 (Toll-like receptor 5).
Cross-Reactivity:	Human, Mouse (Murine)
Purity:	>95 % (SDS-PAGE)
Endotoxin Level:	<0.01EU/µg purified protein (LAL test, Lonza).

### Target Details

Target:	Flagellin (FliC)
Alternative Name:	Flagellin ( <a href="#">FliC Products</a> )
Background:	Flagellin is the subunit protein which polymerizes to form the filaments of bacterial flagella. It activates the innate immune system through the receptor Toll-like Receptor 5 (TLR5) and the intracellular protein NLRC4 (NLR family CARD domain-containing protein 4).
UniProt:	<a href="#">P06179</a>

## Target Details

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Pathways: [Inflammasome](#)

## Application Details

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

Comment: Activation of TLR5 in human epithelial cell assays based on NF-kappaB luciferase fusions, on expression of IL-8 (CXCL8), CCL20, inducible nitric oxide synthase, beta-defensin 2 and matrilysin (MMP-7). Maturation of dendritic cells in in vitro and in vivo assays. Adjuvant activity on foreign antigens delivered by subcutaneous and intranasal routes in mice. TLR5 can be stimulated in vitro by Flagellin (high Purity) at a concentration of 5-50ng /ml and in vivo at a starting concentration of 0.1-1µg /mouse.

Restrictions: For Research Use only

## Handling

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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