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Datasheet for ABIN1344458
Flagellin Protein (FliC)

Overview

Quantity:	3 x 10 µg
Target:	Flagellin (FliC)
Origin:	Human, Mouse
Source:	Salmonella typhimurium
Protein Type:	Recombinant
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 (FliC Products)
Target Type:	Tag
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

Target Details

intracellular protein NLRC4 (NLR family CARD domain-containing protein 4).

UniProt: [P06179](#)

Pathways: [Inflammasome](#)

Application Details

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

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