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Datasheet for ABIN2745676
Flagellin Protein (FliC) (AA 1-495) (His tag)

Overview

Quantity:	3 x 10 µg
Target:	Flagellin (FliC)
Protein Characteristics:	AA 1-495
Origin:	Human, Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Flagellin protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

Product Details

Specificity:	Detected by human and mouse TLR5 (Toll-like receptor 5) and mouse NLRC4 (Nod-like receptor [NLR] family caspase activation and recruitment domain [CARD] domain-containing protein 4).
Cross-Reactivity:	Human, Mouse (Murine)
Characteristics:	The native flagellin [FliC] from Salmonella enterica Serovar Typhimurium strain ATCC14028 (aa 1-495) is fused at the N-terminus to a His-tag.
Purity:	>95 % (SDS-PAGE)
Endotoxin Level:	<0.01EU/µg purified protein (LAL test, Lonza).

Target Details

Target:	Flagellin (FliC)
Alternative Name:	Flagellin (FliC Products)
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:	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, in vivo on expression of CCL20 or IL-6. TLR5 can be stimulated in vitro by Flagellin (rec.) at concentration range of 5-50ng/ml and in vivo at a starting concentration of 0.1-1µg/mouse. Inflammasome NLRC4 can be activated at a concentration range of 1-5µg/ml on bone-marrow macrophages in the presence of streptolysin O (SLO, 25µg/ml), a protein that allows delivery of exogenous molecules into the cytosol of living cells.
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