

Flagellin [FliC] Active Protein

Flagellin [FliC] (high purity)

CATALOG #
AAA77036

REACTIVITY
Human, Mouse

PRODUCT SYNONYMS

Flagellin [FliC]; Flagellin [FliC] (high purity); Flagellin [FliC] active protein

PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse
Specificity	Binds to human and mouse TLR5 (Toll-like receptor 5)
Purity/Purification	>=95% (SDS-PAGE)
Form/Format	Lyophilized. Contains PBS
Concentration	0.1mg/ml after reconstitution (varies by lot)
Source Note	Isolated from Salmonella typhimurium strain 14028
Endotoxin	<0.05EU/ug purified protein (LAL test)
Biological Activity	Tests positive for activation of HEK-Blue hTLR5 reporter cell line
Reconstitution	Reconstitute with 100ul sterile water
Preparation and Storage	Stable for at least 6 months after receipt when stored at -20 degree C Avoid freeze/thaw cycles. After reconstitution, prepare aliquots and store at -20 degree C Shipping: Shipped on Blue Ice

ADDITIONAL INFORMATION

Related Product Information for Flagellin [FliC] active protein	Motile bacteria produce flagella, filaments composed mainly of the structural subunit flagellin. Flagellins are highly conserved molecules among both gram negative and gram positive bacteria, especially in 170 N-terminal and 100 C-terminal amino acids. In mammalian cells, Toll-like receptor 5 (TLR5) senses various flagellins resulting in activation of innate and adaptive immunity. The phase 1 flagellin FliC from Salmonella typhimurium (serotype H 'I'), a protein of 494 amino acids, upregulates production of chemokines and antimicrobial compounds in human epithelial cells and monocytes and induces maturation of dendritic cells. Historical results have shown that flagellin tests positive for activation of HEK-Blue hTLR5 reporter cell line (Invivogen) at concentrations >1 pg/ml.
Product Categories/Family for Flagellin [FliC] active protein	Cellular Analysis; Cell Signaling

NCBI AND UNIPROT INFORMATION

UniProt Accession #	P06179
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.