

Product Datasheet

Recombinant Bacteria Flagellin NLRC4 Mutant His Protein NBP3-18158

Unit Size: 10 ug

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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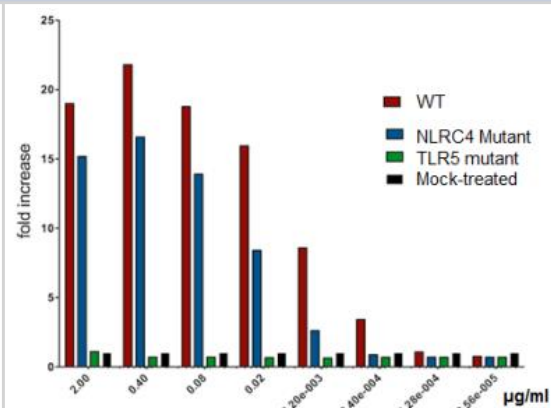


NBP3-18158**Recombinant Bacteria Flagellin NLRC4 Mutant His Protein**

Product Information	
Unit Size	10 ug
Concentration	Lyoph
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Preservative	No Preservative
Reconstitution Instructions	Reconstitute with 100 ul sterile water (0.1mg/ml after reconstitution)
Purity	>95% pure by SDS-PAGE
Buffer	Lyophilized from PBS
Product Description	
Description	Native flagellin [FliC] from Salmonella enterica Serovar Typhimurium strain ATCC14028 (aa 1-495) contains a small deletion at the C-terminus of the protein required for NLRC4 activation and fused at the N-terminus to a His-tag. Source: <i>E. coli</i> NCBI: NP_460912
Species	Bacteria
Reactivity Notes	Salmonella enterica Serovar Typhimurium strain (ATCC14028). Cross-reactive with Human, Mouse.
Specificity/Sensitivity	Detected by human and mouse TLR5 (Toll-like receptor 5). Not detected by mouse NLRC4 (Nod-like receptor [NLR] family caspase activation and recruitment domain [CARD] domain-containing protein 4).
Details of Functionality	Detected by human & mouse TLR5. Not detected by mouse NLRC4. Activation of TLR5 in human epithelial cell assays based on NF-κB luciferase fusions, in vivo on expression of CCL20 or IL-6. TLR5 can be stimulated in vitro by Flagellin (NLRC4 mutant) (rec.) at 5-50ng/ml & in vivo at a starting concentration of 0.1-1 ug/mouse. Does not activate NLRC4 as tested in bone-marrow mouse macrophages (in the presence of streptolysin O (SLO)). It can be used as negative control for NLRC4 signaling.
Endotoxin Note	<0.01EU/ug purified protein (LAL test; Lonza).
Product Application Details	
Applications	Bioactivity
Recommended Dilutions	Bioactivity

Images

Functional: Recombinant Human, Mouse Flagellin NLRC4 Mutant His Protein [NBP3-18158] - Flagellin (rec.) and Flagellin (NLRC4 Mutant) (rec.) induce CCL20-luciferase promoter through TLR5 in vitro. Method: Caco-2 cells transfected with plasmid encoding CCL20-LUC plasmid are activated for 24h with the indicated concentrations of Flagellin (rec.) and (NLRC4 Mutant) (rec.). As a negative control, Flagellin (TLR5 Mutant) (rec.) is used. Luciferase assays are performed on cell lysates and luminescence is normalized to mock-treated cells.





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Products Related to NBP3-18158

NBP2-35885-10ug	Recombinant Flagellin His (C-Term) Protein
NBP3-05967-100ul	Flagellin Antibody (06)

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Peptides and proteins are guaranteed for 3 months from date of receipt.

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