

# Product Datasheet

## Flagellin, TLR5 Ligand NBP2-59773

Unit Size: 10 ug

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

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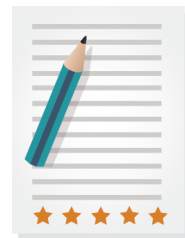
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**NBP2-59773**

Flagellin, TLR5 Ligand

| Product Information         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unit Size                   | 10 ug                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Concentration               | Please see the protocols for proper use of this product. If no protocol is available, contact technical services for assistance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Storage                     | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Buffer                      | Prepare dilutions by adding the appropriate amount of PBS or tissue culture media. Contents: 10 ug in 100 ul of PBS with 10% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Product Description         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Species                     | Human, Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Reactivity Notes            | Human reactivity reported in scientific literature (PMID: 24154872). Mouse reactivity reported in scientific literature (PMID: 25466255)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Immunogen                   | Flagellin FliC from Salmonella Tyhimurium (494 amino acid protein) is a highly conserved molecule among both gram-negative and gram-positive bacteria.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Product Application Details |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Applications                | Functional, In vitro assay, Ligand Activation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Recommended Dilutions       | Functional, In vitro assay, Ligand Activation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Application Notes           | Activation of TLR5. Flagellin is a potent stimulator of innate immune responses in a number of eukaryotic cells and organisms, including both mammals and plants. In mammals, flagellin is recognized by TLR5 and triggers defense responses both systemically and at epithelial surfaces. Flagellin induces the activation of NF-KB and the production of cytokines and nitricoxide depending on the nature of the TLR5 signaling complex. Stimulation of TLR5 has been reported with 10-100 ng/ml. Use in functional reported in scientific literature (PMID: 24154872) Use in In vitro assay reported in scientific literature (PMID 25466255). Use in Ligand activation reported in scientific literature (PMID 25957979) |





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### **Limitations**

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