

Recombinant Flagellin, His

#R00587

Size: 10 µg/100 µg/500 µg

Stability & Storage

- Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- 12 months from date of receipt, -20 to -70 °C as supplied.
 - 1 month, 2 to 8 °C under sterile conditions after reconstitution.
 - 3 months, -20 to -70 °C under sterile conditions after reconstitution.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

Flagellin arranges itself in a hollow cylinder to form the filament in bacterial flagellum. It is the principal substituent of bacterial flagellum, and is present in large amounts on nearly all flagellated bacteria. Mammals often have acquired immune responses (T-cell and antibody responses) to flagellated bacterium and the plant defense mechanisms can be activated by the conserved N-terminal part of flagellin.

AA Sequence

MAQVINTNSLSLLTQNNLNKSQSALGTAIERLSSGLRI
NSAKDDAAGQAIANRFTANIKGLTQASRNANDGISIAQ
TTEGALNEINNNLQRVRELAVQSANSTNSQSDLDSIQ
AEITQRLNEIDRVSGQTQFNGVKVLAQDNTLTIQVGA
NDGETIDIDLKQINSQTLGLDTLNVQQKYKVSDTAATV
TGYADTTIALDNSTFKASATGLGGTDQKIDGDLKFDD
TTGKYYAKVTVTGGTGKDGYYEVSVDKTNGEVTLAG
GATSPLTGGLPATATEDVKNVQVANADLTEAKAALTAA

GVTGTASVVKMSYTDNNGKTIDGGLAVKVGDDYYSA
TQNKDGSISINTTKYTADDGTSKTALNKLGGADGKTE
VVSIGGKTYAASKAEGHNFKAQPDLAEEAATTTENPL
QKIDAALAQVDTLRSDLGAVQNRFNSAITNLGNTVNN
LTSARSRIEDSDYATEVSNMSRAQILQQAGTSVLAQA
NQVPQNVLSLLRLEHHHHHH

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at < -20 °C. Further dilutions should be made in appropriate buffered solutions.

Product Specification

Accession	P06179
GenelD	1253480
Source	Escherichia coli.
Tags	His
Molecular Weight	Approximately 52.7 kDa, a single non-glycosylated polypeptide chain containing 503 amino acids, with Leu, Glu and 6 × His at C-terminus.
Purity	≥95 % by SDS-PAGE analysis.
Biological Activity	Data is not available.
Physical Appearance	Sterile Filtered White Lyophilized (freeze-dried) powder.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 1×PBS, 3 % Trehalose, 0.15 % Tween-20.

Endotoxin	Less than 1 EU/μg of rFlagellin, His as determined by LAL method.
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