

Recombinant Flagellin, His

Information

Gene ID	1253480
Accession #	P06179
Alternate Names	
Source	Escherichia coli.
M.Wt	Approximately 52.7 kDa, a single non-glycosylated polypeptide chain containing 503 amino acids, with Leu, Glu and 6 × His at C-terminus.
AA Sequence	MAQVINTNSL SLLTQNNLNK SQSALGTAIE RLSSGLRINS AKDDAAGQAI ANRFTANIKG LTQASRNAND GISIAQTTEG ALNEINNNLQ RVRELAVQSA NSTNSQSDLD SIQAEITQRL NEIDRVSGQT QFNGVKVLAQ DNTLTIQVGA NDGETIDIDL KQINSQTLGL DTLNVQQKYK VSDTAATVTG YADTTIALDN STFKASATGL GGTQKIDGD LKFDDTTGKY YAKVTVTGGT GKDGYEYVSV DKTNGEVTLA GGATSPLTGG LPATATEDVK NVQVANADLT EAKAALTAAG VTGTASVVKM SYTDNNGKTI DGGLAVKVG DYYSATQNKD GSISINTTKY TADDGTSKTA LNKLGADGK TEVVSIGGKT YAASKAEGHN FKAQPDIAEA AATTENPLQ KIDAALAQVD TLRSDLGAVQ NRFNSAITNL GNTVNNL TSA RSRIEDSDYA TEVSNMSRAQ ILQQAGTSVL AQANQVPQNV LSLLRLEHHH HHH
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
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
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
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.
Biological Activity	Data is not available.
Shipping Condition	Gel pack.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Components and Storage

Components	10µg	100µg	500µg

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Quality Control

Purity	> 95 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/µg of rFlagellin, His as determined by LAL method.

Description

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.

Reference

1. Fedorov OV and Kostyukova AS. 1984. FEBS Lett, 171: 145-8
2. Belas Rand Flaherty D. 1994. Gene, 148: 33-41
3. Givaudan A, Lanois A, Boemare N. 1996. Gene, 183: 243-53
4. Meindl T, Boller T, Felix G. 2000. Plant Cell, 12: 1783-94
5. Hayashi F, Smith KD, Ozinsky A, et al. 2001. Nature, 410: 1099-103.

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