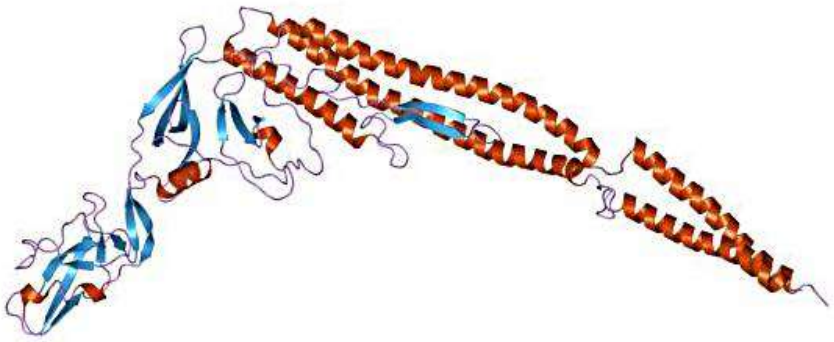
Product Information Sheet

P6622
flg22 peptide



Synonyms:	flagellin peptide (30-51 aa, *P. aeruginosa*)
CAS:	N/A
Formula:	$C_{93}H_{162}N_{32}O_{34}$
Theoretical MW:	2272.5

Properties

Form:	Lyophilized powder
Appearance:	White to off-white
Solubility:	Soluble in sterile water (1 mg/mL) or DMF
Application:	Plant Defense and Immunity
Storage Temp:	-20°C or below
Amino Acid Sequence:	QRLSTGSRINSAKDDAAGLQIA
Typical Working Concentration:	100 pM to 100 nM (Varies with application)

Application Notes

Peptide sequence derived from the flagellin N-terminus of *P. aeruginosa* that is known to elicit specific innate immune responses in plants as well as animals. It is considered a PAMP (pathogen associated molecular pattern) by its conserved 22-amino acid sequence. In *A. thaliana* it leads to activation of MAP (mitogen activated protein) kinases as well as activation of PR (pathogenesis-related) genes.

Dissolve in sterile, deionized water. Store at -20°C or below. Aliquot into multiple tubes to avoid multiple freeze-thawing events.

References

G. Felix *et al.* (1999) “Plants have a sensitive perception system for the most conserved domain of bacterial flagellin.” *Plant J.* Vol. 18(3) pg 265-276.

S.T. Chisholm *et al.* (2006) “Host-Microbe Interactions: Shaping the Evolution of the Plant Immunne Response” *Cell* Vol 124(4) pg 803-814.

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