AtPep3 TFA

Cat. No.: HY-P2194A
Molecular Formula: C₁₀₄H₁₇₉N₃₆F₃O₃₄
Molecular Weight: 2534.75
Sequence: Glu-Ile-Lys-Ala-Arg-Gly-Lys-Asn-Thr-Lys-Pro-Thr-Pro-Ser-Ser-Gly-Lys-Gly-Gly-Lys-His-Asn
Sequence Shortening: EIKARGKNKTKPTPSSGKGGKHN
Target: Others
Pathway: Others
Storage: Please store the product under the recommended conditions in the COA.

BIOLOGICAL ACTIVITY

**Description**
AtPep3 TFA is a hormone-like peptide. AtPep3 TFA can enhance salinity tolerance of plants and inhibits the salt-induced bleaching of chlorophyll in seedlings[1].

**In Vitro**
Treatment of plants with synthetic peptides encoded by AtPROPEP3 reveals that a C-terminal peptide fragment (AtPep3) inhibits the salt-induced bleaching of chlorophyll in seedlings. This functional AtPep3 peptide region overlaps with an AtPep3 elicitor peptide that is related to the immune response of plants. Functional analyses with a receptor mutant of AtPep3 reveals that AtPep3 is recognized by the PEPR1 receptor and that it functions to increase salinity stress tolerance in plants. Collectively, AtPep3 plays a significant role in both salinity stress tolerance and immune response in Arabidopsis[1].

REFERENCES


Caution: Product has not been fully validated for medical applications. For research use only.
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