

Okadaic acid ammonium salt Biochemical

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CATALOG #
AAA227885

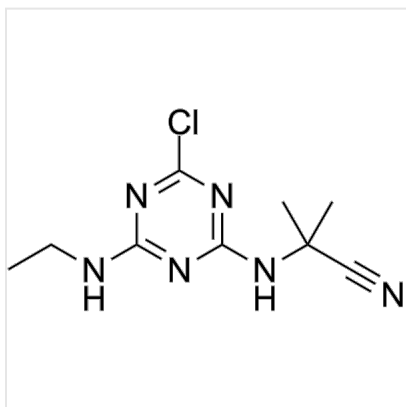
PRODUCT SYNONYMS

Okadaic acid ammonium salt; Okadaic acid ammonium salt biochemical

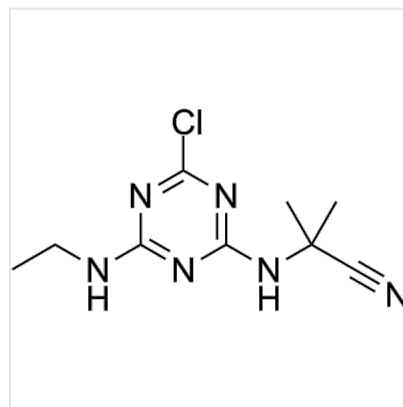
PRODUCT SPECIFICATIONS

Purity/Purification	98%
CAS	175522-42-6
Targets&IC50	PP2B:4000 nM (IC50), PP3:3.7-4 nM (IC50), PP1:15-50 nM (IC50), PP4:0.1 nM (IC50), PP5:3.5 nM (IC50), PP2A:0.1-0.3 nM (IC50), PP7:~1000 nM (IC50)
Solubility	<1mg/ml refers to the product slightly soluble or insoluble
In vitro	Okadaic acid ammonium salt (100 uM; injected unilaterally to the lateral amygdala) induces Tau phosphorylation and protein aggregation in anatomically distinct brain regions 24 h post-injection[5]. Animal Model: Female wild-type C57BL/6 mice (6 to 8 months)[5]. Dosage: 100 uM. Administration: Injected unilaterally to the lateral amygdala. Result: Induced Tau phosphorylation and protein aggregation in anatomically distinct brain regions 24 h post-injection.
Preparation and Storage	Powder: -20 degree C for 3 years In solvent: -80 degree C for 2 years

IMAGES



Structure
Cyanazine, CAS 21725-46-2



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ADDITIONAL INFORMATION

Related Product Information for Okadaic acid ammonium salt biochemical

Okadaic acid ammonium salt, a marine toxin, is an inhibitor of protein phosphatases (PP). Okadaic acid ammonium salt has a significantly higher affinity for PP2A (IC 50 =0.1-0.3 nM), and inhibits PP1 (IC 50 =15-50 nM), PP3 (IC 50 =3.7-4 nM), PP4 (IC 50 =0.1 nM), PP5 (IC 50 =3.5 nM), but does not inhibit PP2C. Okadaic acid ammonium salt increases of phosphorylation of a number of proteins by inhibiting PP, and acts as a tumor promoter. Okadaic acid ammonium salt induces tau phosphorylation.

References

1. Gao, S., et al. Preparation and characterization of cyanazine-ydroxypropyl-beta-cyclodextrin inclusion complex. RSC Advances, 2019. 9(45), 26109-26115.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/biochemical/okadaic-acid-ammonium-salt/227885>