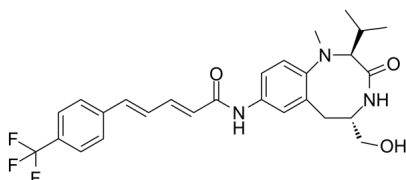


## Certificate of Analysis

Catalog Number	BP14251
Product Name	TPPB

## Physical and Chemical Properties

CAS No.	497259-23-1
Chemical Formula	C <sub>27</sub> H <sub>30</sub> F <sub>3</sub> N <sub>3</sub> O <sub>3</sub>
Molecular Weight	501.55
Solubility	DMSO: 125 mg/mL (249.23 mM), Need ultrasonic
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

## Product Information

Description	TPPB is a kinase C activator of cell-permeable benzolactam-derived protein (K <sub>i</sub> : 11.9 nM).
Targets&IC <sub>50</sub>	PKC:11.9 nM (ki)

In vitro	TPPB inhibits the activation of caspase-3 induced by A $\beta$ 25-35. TPPB could increase the phosphorylation of Akt, PKC, MARCKS, and MAPK, which are inhibited by A $\beta$ 25-35 treatment. TPPB at a concentration of 1 $\mu$ M could antagonize A $\beta$ 25-35 induced cell damage. By the use of a cell line derived from an Alzheimer's disease patient, significant enhancement of sAPP $\alpha$ secretion is achieved at 1 $\mu$ M concentration for TPPB. TPPB has a role against A $\beta$ 25-35-induced neurotoxicity in PC12 cells .
In vivo	TPPB is evaluated for the induction of hyperplasia displays a modest response at 300 $\mu$ g after topical application to the shaved backs of outbred Sencar mice and .

## Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

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