

Product Name: TPPB

Catalog No.: 5343

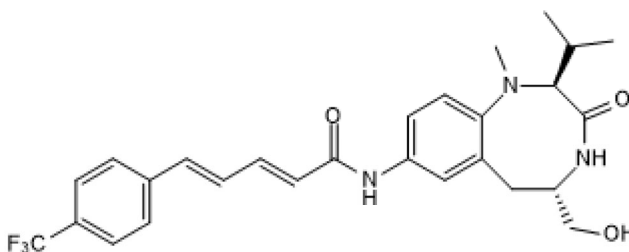
Batch No.: 5

CAS Number: 497259-23-1

IUPAC Name: (2E,4E)-N-[(2S,5S)-1,2,3,4,5,6-Hexahydro-5-(hydroxymethyl)-1-methyl-2-(1-methylethyl)-3-oxo-1,4-benzodiazocin-8-yl]-5-[4-(trifluoromethyl)phenyl]-2,4-pentadienamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₇ H ₃₀ F ₃ N ₃ O ₃
Batch Molecular Weight:	501.54
Physical Appearance:	Yellow solid
Solubility:	DMSO to 50 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 99.2% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

TPPB is a high affinity and cell permeable protein kinase C activator ($K_i = 11.9$ nM), which induces differentiation of hESCs into Pdx-1 expressing pancreatic progenitor cells. TPPB also enhances the non-amyloidgenic processing of amyloid precursor protein, increasing secretion of sAPP α .

Physical and Chemical Properties:

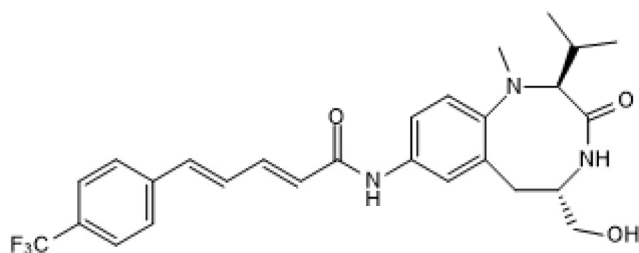
Batch Molecular Formula: C₂₇H₃₀F₃N₃O₃

Batch Molecular Weight: 501.54

Physical Appearance: Yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 50 mM

This product is supplied in lyophilized form. It may appear as a solid, gel or film and be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Rezania et al (2014) Reversal of diabetes with Ins-producing cells derived in vitro from human pluripotent stem cells. *Nat.Biotechnol.* **32** 1121. PMID: 25211370.

Chen et al (2009) A small molecule that directs differentiation of human ESCs into the pancreatic lineage. *Nat.Chem.Biol.* **5** 258. PMID: 19287398 .

Kozikowski et al (2003) New amide-bearing benzolactam-based protein kinase C modulators induce enhanced secretion of the amyloid precursor protein metabolite sAPP α . *J.Med.Chem.* **46** 364. PMID: 12540236.

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