

**Product Name:** TPPB

**Catalog No.:** 5343

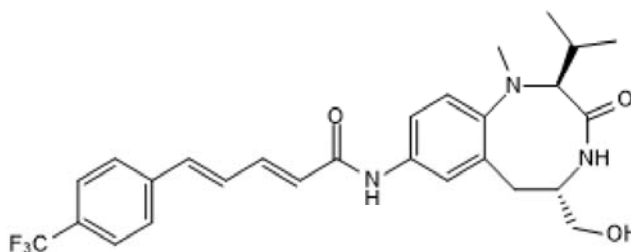
**Batch No.:** 4

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

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



## 2. ANALYTICAL DATA

<b>HPLC:</b>	Shows 97.8% purity
<b><sup>1</sup>H NMR:</b>	Consistent with structure
<b>Mass Spectrum:</b>	Consistent with structure

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

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

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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 $\alpha$ .

**Physical and Chemical Properties:**

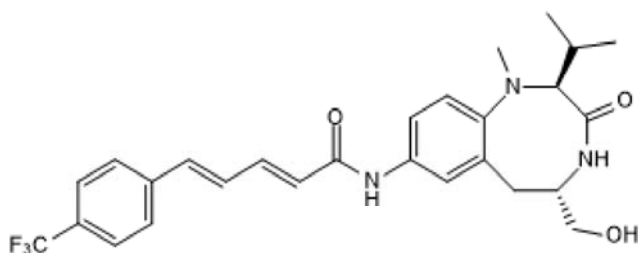
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Batch Molecular Weight: 501.54

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 as a lyophilized solid and may 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. Our standard recommendations are:

**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 $\alpha$ . *J.Med.Chem.* **46** 364. PMID: 12540236.

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