

**Product Name:** BTD

**Catalog No.:** 6940

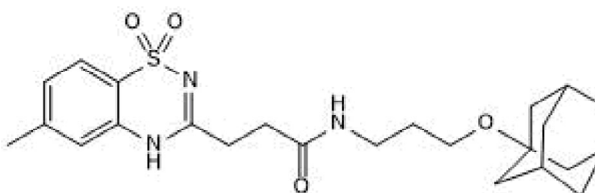
**Batch No.:** 2

CAS Number: 896684-04-1

IUPAC Name: 6-Methyl-*N*-[3-(tricyclo[3.3.1.<sup>13,7</sup>]dec-1-yloxy)propyl]-4*H*-1,2,4-benzothiadiazine-3-propanamide-1,1-dioxide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>24</sub>H<sub>33</sub>N<sub>3</sub>O<sub>4</sub>S.  
**Batch Molecular Weight:** 459.61  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.8% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	62.72	7.24	9.14
Found	62.41	7.14	9.04

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

<b>Product Name:</b>	<b>BTD</b>	<b>Catalog No.:</b>	<b>6940</b>	<b>2</b>
CAS Number:	896684-04-1			
IUPAC Name:	6-Methyl-N-[3-(tricyclo[3.3.1. <sup>13,7</sup> ]dec-1-yloxy)propyl]-4H-1,2,4-benzothiadiazine-3-propanamide-1,1-dioxide			

**Description:**

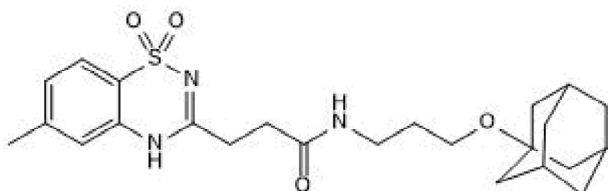
BTD is a selective TRPC5 activator (EC<sub>50</sub> = 1.4 μM in a calcium influx assay, 1.3 μM in whole cell patch clamp assay). Displays >14.5-fold selectivity for TRPC5 over other TRP channels (EC<sub>50</sub> = 20.6 μM for TRPM8). Also activates TRPC1:5 and TRPC4:5 heteromers.

**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>24</sub>H<sub>33</sub>N<sub>3</sub>O<sub>4</sub>S.  
Batch Molecular Weight: 459.61  
Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**References:**

**Beckmann et al** (2017) A benzothiadiazine derivative and methylprednisolone are novel and selective activators of transient receptor potential canonical 5 (TRPC5) channels. *Cell Calcium*. **66** 10. PMID: 28807145.

**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM

**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.

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