

**Product Name:** BMS 986187

**Catalog No.:** 5983

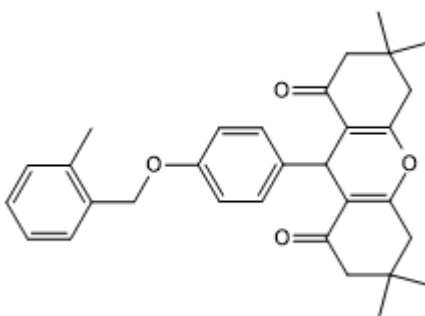
**Batch No.:** 1

CAS Number: 684238-37-7

IUPAC Name: 3,4,5,6,7,9-Hexahydro-3,3,6,6-tetramethyl-9-[4-[(2-methylphenyl)methoxy]phenyl]-1*H*-xanthene-1,8(2*H*)-dione

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>31</sub>H<sub>34</sub>O<sub>4</sub>·¼H<sub>2</sub>O  
**Batch Molecular Weight:** 475.11  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 20 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.3% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	78.37	7.32	
Found	78.53	7.19	

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

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**Description:**

Potent  $\delta$ -opioid receptor positive allosteric modulator ( $EC_{50}$  = 30 nM). Exhibits 100-fold selectivity for  $\delta$  over  $\mu$ -opioid receptor. Enhances affinity of [Leu<sup>5</sup>]-Enkephalin (Cat.No. 1889), SNC 80 (Cat.No. 0764) and TAN 67 (Cat.No. 0921) for the  $\delta$ -opioid receptor.

**Physical and Chemical Properties:**

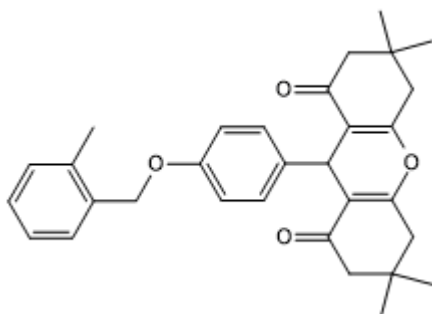
Batch Molecular Formula: C<sub>31</sub>H<sub>34</sub>O<sub>4</sub>·¼H<sub>2</sub>O

Batch Molecular Weight: 475.11

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 20 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. 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:**

**Shang et al** (2016) Proposed mode of binding and action of positive allosteric modulators at opioid receptors. *ACS Chem.Biol.* **11** 1220. PMID: 26841170.

**Burford et al** (2015) Discovery, synthesis, and molecular pharmacology of selective positive allosteric modulators of the  $\delta$ -opioid receptor. *J.Med.Chem.* **58** 4220. PMID: 25901762.

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