

# **Certificate of Analysis**

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## Product Name: SDM25N hydrochloride

## Catalog No.: 1410 Batch No.: 1

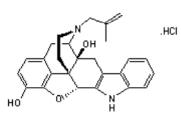
CAS Number: IUPAC Name: 342884-71-3

Name: (4b*S*,8*R*,8a*S*,14b*R*)-5,6,7,8,14,14b-Hexahydro-7-(2-methyl-2-propenyl)-4,8-methanobenzofuro[2,3-*a*]pyrido[4,3-*b*] carbazole-1,8a(9*H*)-diol hydrochloride

## 1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: C<sub>26</sub>H<sub>26</sub>N<sub>2</sub>O<sub>3</sub>.HCl.H<sub>2</sub>O 468.98 White solid water to 10 mM DMSO to 100 mM ethanol to 100 mM Store at +4°C

# Storage: Batch Molecular Structure:



## 2. ANALYTICAL DATA

TLC:
Melting Point:
HPLC:
<sup>1</sup> H NMR:
Microanalysis:

R<sub>f</sub> = 0.57 (Chloroform:Methanol:Ammonia soln. [9:1:0.1]) Greater than 200°C(dec) Shows >99.6% purity Consistent with structure

Carbon Hydrogen Nitrogen				
Theoretical	66.59	6.23	5.97	
Found	66.8	6.12	5.95	

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

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## Print Date: Aug 26th 2020

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#### **Description:**

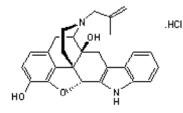
High affinity and highly selective non-peptide  $\delta$  receptor antagonist (K<sub>i</sub> values are 4.7, 3800 and 7900 nM for  $\delta$ ,  $\kappa$  and  $\mu$  receptors respectively). More selective than naltrindole (Cat. No. 0740). Also inhibits Dengue virus replication.

#### **Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>26</sub>H<sub>26</sub>N<sub>2</sub>O<sub>3</sub>.HCl.H<sub>2</sub>O Batch Molecular Weight: 468.98 Physical Appearance: White solid

### Minimum Purity: ≥99%

#### **Batch Molecular Structure:**



#### Storage: Store at +4°C

### Solubility & Usage Info:

water to 10 mM DMSO to 100 mM ethanol 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).

Catalog No.: 1410

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:**

**Sprokholt** *et al* (2017) RIG-I-like receptor triggering by Dengue virus drives dendritic cell immune activation and  $T_H1$  differentiation. J.Immunol.. PMID: 28507028.

**McLamore** *et al* (2001) Effect of *N*-alkyl and *N*-alkenyl substituents in noroxymorphindole, 17-substituted-6,7-dehydro-4,5α-epoxy-3,14-dihydroxy-6,7:2 ',3 '-indolomorphinans, on opioid receptor affinity, selectivity, and efficacy. J.Med.Chem. **44** 1471. PMID: 11311071.

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