

## **Certificate of Analysis**

Print Date: Sep 1st 2020

Batch No.: 2

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Catalog No.: 1410

Product Name: SDM25N hydrochloride

CAS Number: 342884-71-3

IUPAC Name: (4bS,8R,8aS,14bR)-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(9H)-diol hydrochloride

## 1. 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: Off-white solid

**Solubility:** water to 10 mM

DMSO to 100 mM ethanol to 100 mM

Storage: Store at +4°C

**Batch Molecular Structure:** 

## 2. ANALYTICAL DATA

TLC: R<sub>f</sub> = 0.4 (Chloroform:Methanol:Ammonia soln. [90:9:1])

**HPLC:** Shows >99.9% purity

<sup>1</sup>H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 66.59 6.23 5.97 Found 66.68 6.19 5.76

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



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carbazole-1,8a(9H)-diol hydrochloride

#### **Description:**

High affinity and highly selective non-peptide  $\delta$  receptor antagonist ( $K_i$  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:**

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Batch Molecular Weight: 468.98 Physical Appearance: Off-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).

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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<sub>H</sub>1 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.