## **TOCRIS** b i o s c i e n c e

## **Certificate of Analysis**

# Print Date: Jun 13<sup>th</sup> 2012

## www.tocris.com

## Product Name: LRRK2-IN-1

## Catalog No.: 4273 Batch No.: 1

CAS Number: IUPAC Name:

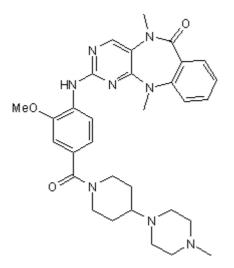
### : 1234480-84-2

5,11-Dihydro-2-[[2-methoxy-4-[[4-(4-methyl-1-piperazinyl)-1-piperidinyl]carbonyl]phenyl]amino]-5,11-dimethyl-6*H*-pyrimido[4,5-*b*][1,4]benzodiazepin-6-one

## 1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: C<sub>31</sub>H<sub>38</sub>N<sub>8</sub>O<sub>3</sub>.<sup>1/2</sup>H<sub>2</sub>O 579.1 Off-white solid DMSO to 100 mM ethanol to 100 mM Store at -20°C

Storage: Batch Molecular Structure:



## 2. ANALYTICAL DATA

TLC: HPLC: <sup>1</sup>H NMR: Mass Spectrum: Microanalysis: Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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## **Product Information**

#### Print Date: Jun 13th 2012

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#### **Description:**

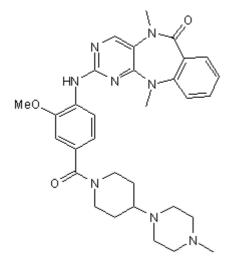
Potent and selective inhibitor of leucine-rich repeat kinase 2 (LRRK2). Inhibits both G2019S mutant and wild-type LRRK2 kinase activity ( $IC_{50}$  values are 6 and 13 nM respectively).

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

Batch Molecular Formula:  $C_{31}H_{38}N_8O_3$ .  $\frac{1}{2}H_2O$ Batch Molecular Weight: 579.1 Physical Appearance: Off-white solid

#### **Minimum Purity:** >98%

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



#### Storage: Store at -20°C

#### Solubility & Usage Info:

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).

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:

**Deng** *et al* (2011) Characterization of a selective inhibitor of the Parkinson's disease kinase LRRK2. Nat.Chem.Biol. **7** 203. PMID: 21378983.

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