# TOCRIS a biotechne brand

## **Certificate of Analysis**

## www.tocris.com

### Product Name: ML 298 hydrochloride

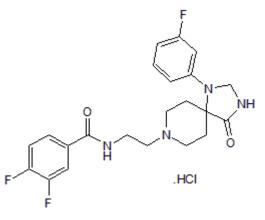
**IUPAC Name:** 

Catalog No.: 4895 Batch No.: 1

3,4-Difluoro-N-[2-[1-(3-fluorophenyl)-4-oxo-1,3,8-triazaspiro[4.5]dec-8-yl]ethyl]benzamide hydrochloride

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula: Batch Molecular Weight: Physical Appearance:** Solubility: Storage: **Batch Molecular Structure:**   $C_{22}H_{23}F_{3}N_{4}O_{2}.HCI._{4}H_{2}O$ 473.4 Off-white solid DMSO to 25 mM Desiccate at RT



## 2. ANALYTICAL DATA

TLC: HPLC: <sup>1</sup>H NMR: Mass Spectrum: **Microanalysis:** 

R<sub>f</sub> = 0.3 (Dichloromethane:Methanol [95:5]) Shows >99% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen Theoretical 55.82 5.22 11.83 Found 55.86 5.15 11.62

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

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## Print Date: Jan 14th 2016

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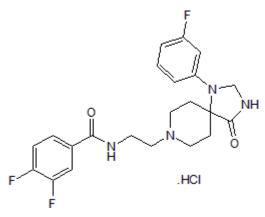
#### **Description:**

Selective inhibitor of phospholipase D2 (PLD2) (IC<sub>50</sub> values are 355 and >20,000 nM for PLD2 and PLD1, respectively). Decreases invasive migration in U87-MG glioblastoma cells, without affecting cell viability.

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

Batch Molecular Formula:  $C_{22}H_{23}F_3N_4O_2$ .HCl.<sup>1</sup>/<sub>4</sub>H<sub>2</sub>O Batch Molecular Weight: 473.4 Physical Appearance: Off-white solid

### **Batch Molecular Structure:**



#### Storage: Desiccate at RT

Solubility & Usage Info: DMSO to 25 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.: 4895

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:

**O'Reilly** *et al* (2013) Development of dual PLD1/2 adn PLD2 selective inhibitors from a common 1,3,8-triazaspiro[4.5]decane core: discovery of ML298 and ML299 that decrease invasive migration in U87-MG glioblastoma cells. J.Med.Chem. **56** 2695. PMID: 23445448.

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