TOCRIS
a bio-techne brand

Print Date: Jan 14th 2016

Certificate of Analysis

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Product Name: **TC-G 24** **Catalog No.: 4353** **Batch No.: 1**

CAS Number: 1257256-44-2

IUPAC Name: *N*-(3-Chloro-4-methylphenyl)-5-(4-nitrophenyl)-1,3,4-oxadiazol-2-amine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{15}H_{11}ClN_4O_3.¼H_2O$

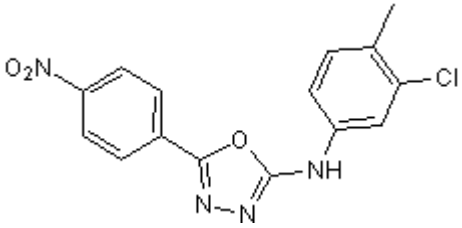
Batch Molecular Weight: 335.23

Physical Appearance: Yellow solid

Solubility: DMSO to 10 mM with gentle warming

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.8% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	53.74	3.46	16.71
Found	53.65	3.32	16.87

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IUPAC Name: *N*-(3-Chloro-4-methylphenyl)-5-(4-nitrophenyl)-1,3,4-oxadiazol-2-amine

Description:

Potent GSK-3β inhibitor (IC_{50} = 17 nM); displays selectivity for GSK-3β over CDK2 (22% inhibition at 10 μM). Increases liver glycogen reserves in rodents. Brain penetrant.

Physical and Chemical Properties:

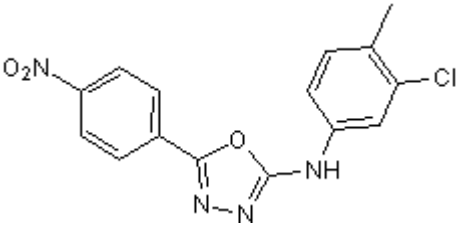
Batch Molecular Formula: $C_{15}H_{11}ClN_4O_3.¼H_2O$

Batch Molecular Weight: 335.23

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 10 mM with gentle warming

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:

Khanfar *et al* (2010) Discovery of novel GSK-3β inhibitors with potent in vitro and in vivo activities and excellent brain permeability using combined ligand- and structure-based virtual screening. J.Med.Chem. ***53*** 8534. PMID: 21082766.