TOCRIS a biotechne brand

Batch No.: 1

Certificate of Analysis

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Catalog No.: 3657

Product Name: Sal 003

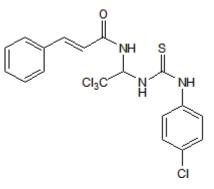
CAS Number: IUPAC Name:

1164470-53-4

3--Phenyl-N-(2,2,2-trichloro-1-((((4-chlorophenyl)amino)carbonothioyl)amino)ethyl)acrylamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage: Batch Molecular Structure: $C_{18}H_{15}CI_4N_3OS.\frac{1}{2}H_2O$ 472.22 Off-white solid DMSO to 100 mM Store at -20°C



2. ANALYTICAL DATA

TLC: HPLC: ¹H NMR: Mass Spectrum: Microanalysis: R_f = 0.5 (Ethyl acetate:Petroleum ether [1:1]) Shows 99.6% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen Theoretical 45.78 3.42 8.9 Found 45.47 3.33 8.68

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

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OCR a biotechne brand

Print Date: Jan 15th 2016

www.tocris.com

Product Name: Sal 003

Catalog No.: 3657

Batch No.: 1

CAS Number: 1164470-53-4 **IUPAC Name:**

3--Phenyl-N-(2,2,2-trichloro-1-((((4-chlorophenyl)amino)carbonothioyl)amino)ethyl)acrylamide

Description:

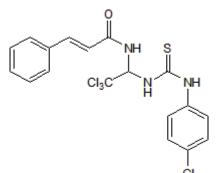
Cell-permeable inhibitor of cellular phosphatase complexes that dephosphorylate eukaryotic translation initiation factor 2 subunit α (eIF2α). Analog of salubrinal (Cat. No. 2347) with improved aqueous solubility. Shown to prevent the induction of hippocampal long-term potentiation (LTP) and memory formation (LTM) in mice.

Physical and Chemical Properties:

Batch Molecular Formula: C18H15Cl4N3OS.1/2H2O Batch Molecular Weight: 472.22 Physical Appearance: Off-white solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info: DMSO 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:

Baltiz et al (2007) The eIF2α kinases PERK and PKR activate glucogen synthase kinase 3 to promote the proteasomal degradation of p53. J.Biol.Chem. 282 31675. PMID: 17785458.

Costa-Mattioli et al (2007) eIF2a phosphorylation bidirectionally regulates the switch from short- to long-term synaptic plasticity and memory. Cell 129 195. PMID: 17418795.

Raven et al (2008) PKR and PKR-like endoplasmic reticulum kinase induce the protease-dependent degradation of cyclin D1 via a mechanism requiring eukaryotic initiation factor 2α phosphorylation. J.Biol.Chem. 283 3097. PMID: 18063576.

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