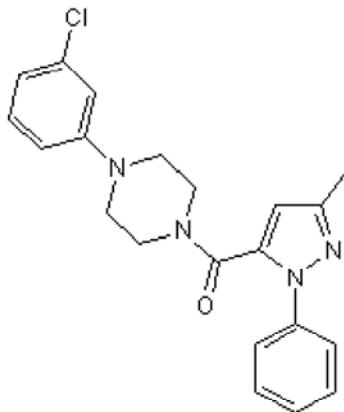


Certificate of Analysiswww.tocris.com**Product Name:** XRP44X**Catalog No.:** 3101**Batch No.:** 1

CAS Number: 729605-21-4

IUPAC Name: 1-(3-Chlorophenyl)-4-[(3-methyl-1-phenyl-1*H*-pyrazol-5-yl)carbonyl]piperazine**1. PHYSICAL AND CHEMICAL PROPERTIES****Batch Molecular Formula:** C₂₁H₂₁ClN₄O**Batch Molecular Weight:** 380.87**Physical Appearance:** White solid**Solubility:** DMSO to 100 mM
ethanol to 50 mM**Storage:** Store at RT**Batch Molecular Structure:****2. ANALYTICAL DATA****TLC:** R_f = 0.2 (Ethyl acetate:Isohexane [70:30])**Melting Point:** Between 89 - 90°C**HPLC:** Shows 99.2% purity**¹H NMR:** Consistent with structure**Mass Spectrum:** Consistent with structure**Microanalysis:** Carbon Hydrogen Nitrogen

Theoretical 66.22 5.56 14.71

Found 66.19 5.63 14.74

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

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Product Information

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Catalog No.: 3101

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CAS Number: 729605-21-4

IUPAC Name: 1-(3-Chlorophenyl)-4-[(3-methyl-1-phenyl-1*H*-pyrazol-5-yl)carbonyl]piperazine

Description:

Ras-Net (Elk-3) pathway inhibitor (IC_{50} = 10 - 20 nM). Indirectly inhibits Net phosphorylation upstream of Erk1/2 activation. Mediates G₂-M cell cycle arrest, suppresses growth of multiple cell types (IC_{50} ~ 2 nM), inhibits angiogenesis and acts as a microtubule depolymerizing agent in vitro.

Physical and Chemical Properties:

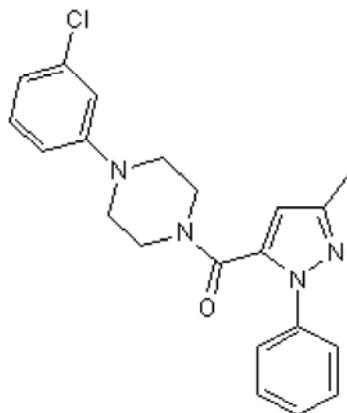
Batch Molecular Formula: C₂₁H₂₁ClN₄O

Batch Molecular Weight: 380.87

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Wasyluk *et al* (2008) Inhibition of the Ras-Net (Elk-3) pathway by a novel pyrazole that affects microtubules. *Cancer Res.* **68** 1275. PMID: 18316589.

Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 50 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.

Other Information:

INFORMATION FOR CUSTOMERS IN THE UK ONLY

This product is a Schedule 1 Home Office controlled substance and customers in the UK are required to hold the relevant licence or be exempt from restrictions in order to purchase and possess this material.

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