

Certificate of Analysis

www.tocris.com

Product Name: XRP44X

Catalog No.: 3101

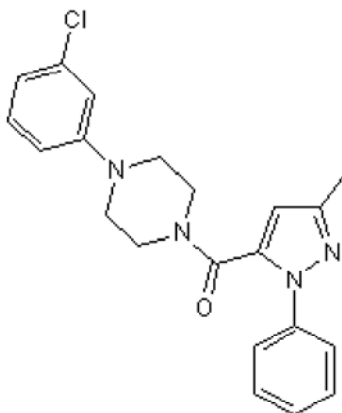
Batch No.: 1

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

bio-techne.com

info@bio-techne.com
techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors
Tel: +1 612 379 2956

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

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:

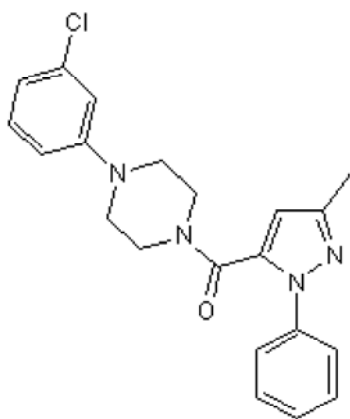
Batch Molecular Formula: C₂₁H₂₁ClN₄O

Batch Molecular Weight: 380.87

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



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.

References:

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

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956