

Certificate of Analysis

Print Date: Apr 9th 2020

www.tocris.com

Product Name: GP 1a Catalog No.: 2764 Batch No.: 1

CAS Number: 511532-96-0

IUPAC Name: N-(Piperidin-1-yl)-1-(2,4-dichlorophenyl)-1,4-dihydro-6-methylindeno[1,2-c]pyrazole-3-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C23H22CI2N4O
Batch Molecular Weight: 441.35

Physical Appearance: Off-white solid

Solubility: DMSO to 100 mM ethanol to 100 mM

Storage: Store at RT

2. ANALYTICAL DATA

TLC: $R_f = 0.2$ (Ethyl acetate:Petroleum ether [1:4])

HPLC: Shows >99.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 62.59 5.02 12.69 Found 62.7 5.01 12.61

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

Tel: +44 (0)1235 529449 www.tocris.com/distri Tel:+1 612 379 2956



Product Information

Print Date: Apr 9th 2020

www.tocris.com

Product Name: GP 1a Catalog No.: 2764 Batch No.: 1

CAS Number: 511532-96-0

IUPAC Name: N-(Piperidin-1-yl)-1-(2,4-dichlorophenyl)-1,4-dihydro-6-methylindeno[1,2-c]pyrazole-3-carboxamide

Description:

Physical and Chemical Properties:

Batch Molecular Formula: _{C23H22CI2N4O} Batch Molecular Weight: 441.35 Physical Appearance: Off-white solid

Minimum Purity: ≥99%

Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM ethanol 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:

Soethoudt et al (2017) Cannabinoid CB₂ receptor ligand profiling reveals biased signalling and off-target activity. Nat.Commun. 8 13958. PMID: 28045021.

Tschop et al (2009) The cannabinoid receptor 2 is critical for the host response to sepsis. J.Immunol. 183 499. PMID: 19525393.

Murineddu *et al* (2006) Tricyclic pyrazoles. 4. Synthesis and biological evaluation of analogues of the robust and selective CB₂ cannabinoid ligand 1-(2',4'-dichlorophenyl)-6-methyl-*N*-piperidin-1-yl-1,4-dihydroindeno[1,2-*c*]pyrazole-3-carboxam J.Med.Chem. *49* 7502. PMID: 17149879.

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