TOCRIS b i o s c i e n c e

Certificate of Analysis

www.tocris.com

Product Name: DDR1-IN-1

IUPAC Name:

Catalog No.: 5077 Batch No.: 2

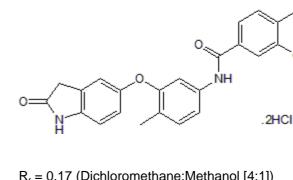
CF₃

N-[3-[(2,3-Dihydro-2-oxo-1*H*-indol-5-yl)oxy]-4-methylphenyl]-4-[(4-ethyl-1-piperazinyl)methyl]-3-(trifluoromethyl)benzamide dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: $C_{30}H_{31}F_{3}N_{4}O_{3}.2HCI.\frac{1}{2}H_{2}O$ 634.52 Cream solid water to 100 mM DMSO to 50 mM Desiccate at RT

Storage: Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: HPLC: ¹H NMR: Mass Spectrum: Microanalysis: Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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TOCRIS b i o s c i e n c e

Product Information

www.tocris.com

Print Date: Jun 5th 2014

Product Name: DDR1-IN-1

Catalog No.: 5077 Batch No.: 2

IUPAC Name: N-[3-[(2,3-Dihydro-2-oxo-1*H*-indol-5-yl)oxy]-4-methylphenyl]-4-[(4-ethyl-1-piperazinyl)methyl]-3-(trifluoromethyl)benzamide dihydrochloride

Description:

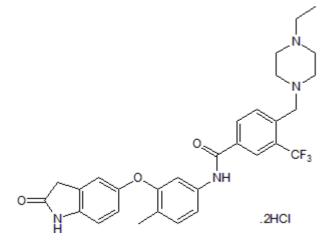
Selective discoidin domain receptor 1 (DDR1) tyrosine kinase inhibitor (IC_{50} values are 105 and 413 nM for DDR1 and DDR2 respectively). Inhibits integrin-induced DDR1 autophosphorylation in an osteosarcoma cell line.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{30}H_{31}F_3N_4O_3.2HCI.\frac{1}{2}H_2O$ Batch Molecular Weight: 634.52 Physical Appearance: Cream solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info: water to 100 mM DMSO 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.

References:

Kim et al (2013) Discovery of a potent and selective DDR1 receptor tyrosine kinase inhibitor. ACS.Chem.Biol. 8 2145. PMID: 23899692.

Canning *et al* (2014) Structural Mechanisms Determining Inhibition of the Collagen Receptor DDR1 by Selective and Multi-Targeted Type II Kinase Inhibitors. J.Mol.Biol. **426** 2457. PMID: 24768818.

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