

Certificate of Analysis

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Product Name: SB 408124

Catalog No.: 1963

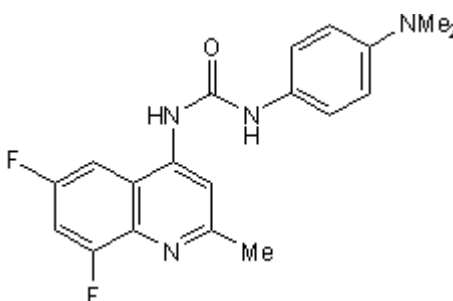
Batch No.: 3

CAS Number: 288150-92-5

IUPAC Name: *N*-(6,8-Difluoro-2-methyl-4-quinolinyl)-*N*-[4-(dimethylamino)phenyl]urea

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₁₈F₂N₄O
Batch Molecular Weight: 356.37
Physical Appearance: Beige solid
Solubility: DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.21 (Chloroform:Methanol [95:5])
HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.04	5.09	15.72
Found	63.85	5.09	15.7

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

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Description:

Selective non-peptide orexin OX₁ receptor antagonist (K_b values are 21.7 and 1405 nM for human OX₁ and OX₂ receptors respectively). Blocks orexin-A induced grooming following oral administration in vivo.

Physical and Chemical Properties:

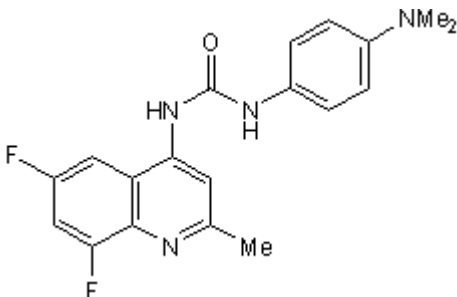
Batch Molecular Formula: C₁₉H₁₈F₂N₄O

Batch Molecular Weight: 356.37

Physical Appearance: Beige solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

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:

Porter (2001) Advances in novel 7-TM receptors: non-peptide orexin-1 antagonists. Royal Society of Chemistry Meeting..

Langmead et al (2004) Characterisation of the binding of [³H]-SB-674042, a novel nonpeptide antagonist, to the human orexin-1 receptor. Br.J.Pharmacol. **141** 340. PMID: 14691055.

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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