

Product Name: RS 504393

Catalog No.: 2517

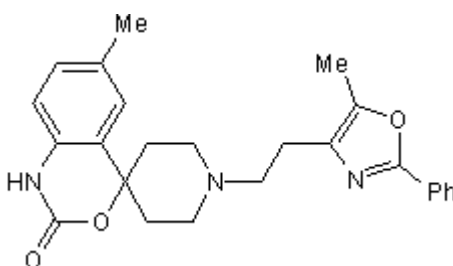
Batch No.: 8

CAS Number: 300816-15-3

IUPAC Name: 6-Methyl-1'-[2-(5-methyl-2-phenyl-4-oxazolyl)ethyl]-spiro[4*H*-3,1-benzoxazine-4,4'-piperidin]-2(1*H*)-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₅H₂₇N₃O₃
Batch Molecular Weight: 417.5
Physical Appearance: Off White powder
Solubility: DMSO to 10 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.47 (Chloroform:Methanol [9:1])
HPLC: Shows >99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	71.92	6.52	10.06
Found	71.89	6.51	10.11

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Description:

Extremely selective CCR2 chemokine receptor antagonist (IC₅₀ values are 98 nM and > 100 μM for inhibition of human recombinant CCR2b and CCR1 receptors respectively). Inhibits MCP-1 chemotaxis (IC₅₀ = 330 nM) and ischemia-reperfusion injury in kidneys.

Physical and Chemical Properties:

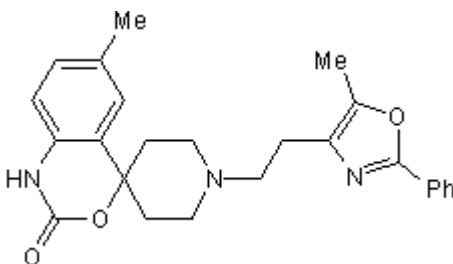
Batch Molecular Formula: C₂₅H₂₇N₃O₃

Batch Molecular Weight: 417.5

Physical Appearance: Off White powder

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 10 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:

Mirzadegan et al (2000) Identification of the binding site for a novel class of CCR2b chemokine receptor antagonists. *J.Biol.Chem.* **275** 25562. PMID: 10770925.

Furuichi et al (2003) CCR2 signaling contributes to ischemia-reperfusion injury in kidney. *J.Am.Soc.Nephrol.* **14** 2503. PMID: 14514728.

Kitagawa et al (2004) Blockade of CCR2 ameliorates progressive fibrosis in kidney. *Am.J.Pathol.* **165** 237. PMID: 15215179.

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USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373

www.RnDSystems.com