

Certificate of Analysis

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Product Name: Ro 67-4853

Catalog No.: 4347

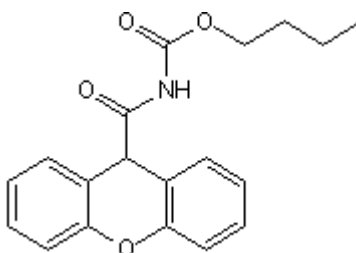
Batch No.: 1

CAS Number: 302841-89-0

IUPAC Name: (9*H*-Xanthen-9-ylcarbonyl)-carbamic acid butyl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₁₉NO₄
Batch Molecular Weight: 325.36
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.13 (Chloroform:Methanol [9:1])
HPLC: Shows 99.3% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	70.14	5.89	4.31
Found	69.8	5.78	4.54

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

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Description:

Positive allosteric modulator of mGlu group I receptors (pEC₅₀ value is 7.16 for the rat mGlu_{1a} receptor). Exhibits activity at all group I receptors, including human and rat mGlu₁ and rat mGlu₅. Enhances the effects of (S)-DHPG in CA3 neurons (EC₅₀ = 95 nM).

Physical and Chemical Properties:

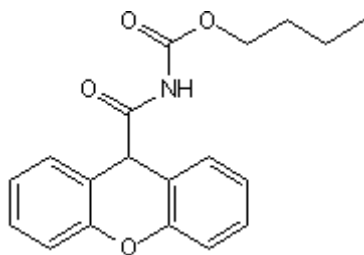
Batch Molecular Formula: C₁₉H₁₉NO₄

Batch Molecular Weight: 325.36

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Knoflach et al (2001) Positive allosteric modulators of metabotropic glutamate receptor: Characterization, mechanism of action, and binding site. *Proc.Natl.Acad.Sci.* **98** 13402. PMID: 11606768.

Hempstapat et al (2006) A novel class of positive allosteric modulators of metabotropic glutamate receptor subtype 1 interact with a site distinct from that of negative allosteric modulators. *Mol.Pharmacol.* **70** 616. PMID: 16645124.

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.

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