

Certificate of Analysis

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Product Name: Rufinamide

Catalog No.: 3828

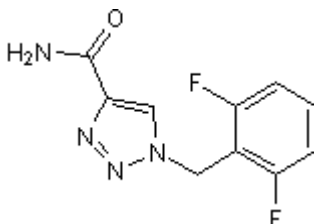
Batch No.: 1

CAS Number: 106308-44-5

IUPAC Name: 1-[(2,6-Difluorophenyl)methyl]-1*H*-1,2,3-triazole-4-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₈F₂N₄O
Batch Molecular Weight: 238.19
Physical Appearance: White solid
Solubility: DMSO to 100 mM
ethanol to 5 mM with gentle warming
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 234 - 237°C
HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	50.42	3.39	23.52
Found	50.39	3.43	23.74

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

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Description:

Broad spectrum anticonvulsant. Prolongs the inactivation of sodium channels and limits the frequency of action potential firing in cultured and acutely isolated neurons. Displays anticonvulsive activity in a range of animal seizure models.

Physical and Chemical Properties:

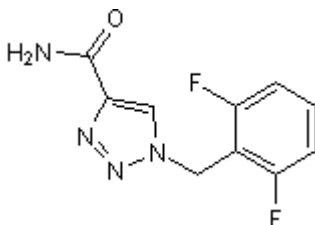
Batch Molecular Formula: C₁₀H₈F₂N₄O

Batch Molecular Weight: 238.19

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 5 mM with gentle warming

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:

Rogawski *et al* (2006) Diverse mechanisms of antiepileptic drugs in the development pipeline. *Epilepsy Res.* **69** 273. PMID: 16621450.

Arroyo (2007) Rufinamide. *Neurotherapeutics* **4** 155. PMID: 17199032.

White *et al* (2008) The anticonvulsant profile of rufinamide (CGP 33101) in rodent seizure models. *Epilepsia* **49** 1213. PMID: 18325020.

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