

**Product Name:** Rufinamide

**Catalog No.:** 3828

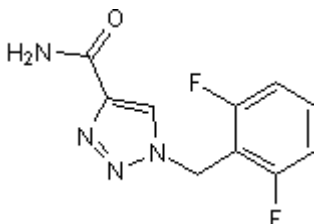
**Batch No.:** 1

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:** C<sub>10</sub>H<sub>8</sub>F<sub>2</sub>N<sub>4</sub>O  
**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  
**<sup>1</sup>H 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:**

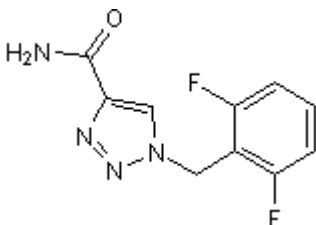
Batch Molecular Formula: C<sub>10</sub>H<sub>8</sub>F<sub>2</sub>N<sub>4</sub>O

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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