

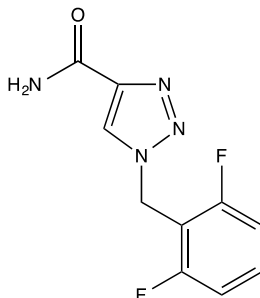
Catalog # 10-4275

Rufinamide

CAS# 106308-44-5

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

Lot # FBS1080



Rufinamide is a clinically useful anticonvulsant medication.¹ Its mechanism of action is believed to be inhibition of Na_v1.1 and Na_v1.6 activation.² Rufinamide improved cognitive function and increased neurogenesis in gerbils via increases in IGF-1, IGF-1R, and p-CREB.³

- 1) Hakimian *et al.* (2007), *Rufinamide: a new anti-epileptic medication*; Expert Opin.Pharmacother. **8** 1931
- 2) Gilchrist *et al.* (2014), *Nav1.1 Modulation by a Novel Triazole Compound Attenuates Epileptic Seizures in Rodents*; ACS Chem.Biol. **9** 1204
- 3) Chen *et al.* (2018), *Rufinamide, an antiepileptic drug, improves cognition and increases neurogenesis in the aged gerbil hippocampal dentate gyrus via increasing expressions of IGF-1, IGF-1R and p-CREB*; Chem.Biol.Interact. **286** 71

PHYSICAL DATA

Molecular Weight:	238.19
Molecular Formula:	C ₁₀ H ₈ F ₂ N ₄ O ₂
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (10 mg/mL)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

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