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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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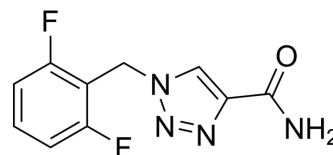
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Rufinamide

Cat. No.:	HY-A0042		
CAS No.:	106308-44-5		
Molecular Formula:	C ₁₀ H ₈ F ₂ N ₄ O		
Molecular Weight:	238.19		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (209.92 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	4.1983 mL	20.9916 mL	41.9833 mL
		5 mM	0.8397 mL	4.1983 mL	8.3967 mL
10 mM		0.4198 mL	2.0992 mL	4.1983 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (10.50 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	<p>Rufinamide(E 2080; CGP 33101; RUF 331) is a new antiepileptic agent that differs structurally from other antiepileptic drugs and is approved as adjunctive therapy for Lennox-Gastaut syndrome (LGS). IC50 Value: Target: in vitro: in vivo: Rufinamide and amitriptyline alleviated injury-induced mechanical allodynia for 4 h (maximal effect: 0.10 ± 0.03 g (mean ± SD) to 1.99 ± 0.26 g for rufinamide and 0.25 ± 0.22 g to 1.92 ± 0.85 g for amitriptyline) in mice [1]. Oral rufinamide suppressed pentylentetrazol-induced seizures in mice (ED(50) 45.8 mg/kg) but not rats, and was active against MES-induced tonic seizures in mice (ED(50) 23.9 mg/kg) and rats (ED(50) 6.1 mg/kg) [2]. Intraperitoneal rufinamide suppressed pentylentetrazol-, bicuculline-, and picrotoxin-induced clonus in mice (ED(50) 54.0, 50.5, and 76.3 mg/kg, respectively). Clinical trial: Exploratory Study to Evaluate the Effect of SYN-111 (Rufinamide) in Patients With Generalized Anxiety Disorder (GAD). Phase 2</p>
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REFERENCES

[1]. Suter MR, Kirschmann G, Laedermann CJ, Rufinamide attenuates mechanical allodynia in a model of neuropathic pain in the mouse and stabilizes voltage-gated sodium channel inactivated state. *Anesthesiology*. 2013 Jan;118(1):160-72.

[2]. White HS, Franklin MR, Kupferberg HJ, The anticonvulsant profile of rufinamide (CGP 33101) in rodent seizure models. *Epilepsia*. 2008 Jul;49(7):1213-20.

Caution: Product has not been fully validated for medical applications. For research use only.

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