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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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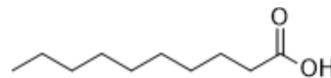
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Decanoic acid

Cat. No.:	HY-W015309		
CAS No.:	334-48-5		
Molecular Formula:	C ₁₀ H ₂₀ O ₂		
Molecular Weight:	172.27		
Target:	iGluR		
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 130 mg/mL (754.63 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	5.8048 mL	29.0242 mL	58.0484 mL
	5 mM	1.1610 mL	5.8048 mL	11.6097 mL
	10 mM	0.5805 mL	2.9024 mL	5.8048 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.17 mg/mL (12.60 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.17 mg/mL (12.60 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.17 mg/mL (12.60 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Decanoic acid, a component of medium chain triglycerides, is a brain-penetrant and non-competitive inhibitor of AMPA receptor. Decanoic acid has antiseizure effects^{[1][2][3]}.

IC₅₀ & Target

Human Endogenous Metabolite

REFERENCES

- [1]. Boison D, et, al. New insights into the mechanisms of the ketogenic diet. *Curr Opin Neurol*. 2017 Apr;30(2):187-192.
- [2]. Chang P, et al. Seizure control by decanoic acid through direct AMPA receptor inhibition. *Brain*. 2016 Feb;139(Pt 2):431-43.
- [3]. Kim S, et, al. Selective production of decanoic acid from iterative reversal of β -oxidation pathway. *Biotechnol Bioeng*. 2018 May;115(5):1311-1320.
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Caution: Product has not been fully validated for medical applications. For research use only.

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