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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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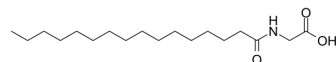
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Palmitoylglycine

Cat. No.:	HY-W074890		
CAS No.:	2441-41-0		
Molecular Formula:	C ₁₈ H ₃₅ NO ₃		
Molecular Weight:	313.48		
Target:	Calcium Channel; NO Synthase		
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling; Immunology/Inflammation		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 5 mg/mL (15.95 mM; ultrasonic and warming and heat to 60°C)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		3.1900 mL	15.9500 mL	31.9000 mL
	5 mM		0.6380 mL	3.1900 mL	6.3800 mL
	10 mM		0.3190 mL	1.5950 mL	3.1900 mL

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

BIOLOGICAL ACTIVITY

Description

Palmitoylglycine (N-palmitoyl glycine), an endogenous lipid that acts as a modulator of calcium influx and nitric oxide (NO) production in sensory neurons. Palmitoylglycine is linked to an increased risk of Background Brugada syndrome (BrS) and interacts with BrS-associated proteins, demonstrating moderate binding affinities for DCC, CR1, CTSB, NAAA, DEFB1, EPHA1, IGF1/IGFBP3/ALS, and LTA^{[1][2][3]}.

In Vitro

Palmitoylglycine induces transient calcium influx in native adult DRG cells and in a DRG-like cell line^[3]. Palmitoylglycine contributes to the production of nitric oxide (NO) through calcium-sensitive nitric oxide synthase (NOS) enzymes present in F-11 cells^[3].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Palmitoylglycine potently inhibits heat-evoked firing of nociceptive neurons in rat dorsal horn^[3].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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- [1]. Neta Rimmerman, et al. N-palmitoyl glycine, a novel endogenous lipid that acts as a modulator of calcium influx and nitric oxide production in sensory neurons. Mol Pharmacol. 2008 Jul;74(1):213-24.
- [2]. Xu H, et al. N-Palmitoyl glycine activates transient receptor potential channel 5 and increases the risk of Brugada syndrome[J]. medRxiv, 2024: 2024.10. 21.24315897.
- [3]. Bradshaw HB, et al. Novel endogenous N-acyl glycines identification and characterization. Vitam Horm. 2009;81:191-205.
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Caution: Product has not been fully validated for medical applications. For research use only.

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