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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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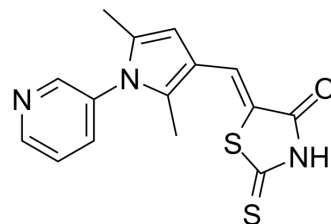
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Optovin

Cat. No.:	HY-12809		
CAS No.:	348575-88-2		
Molecular Formula:	C ₁₅ H ₁₃ N ₃ OS ₂		
Molecular Weight:	315.41		
Target:	TRP Channel		
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling		
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 : ≥ 37 mg/mL (117.31 mM)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		3.1705 mL	15.8524 mL	31.7048 mL
	5 mM		0.6341 mL	3.1705 mL	6.3410 mL
	10 mM		0.3170 mL	1.5852 mL	3.1705 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.5 mg/mL (7.93 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Optovin is a reversible photoactivated TRPA1 ligand that enables light-mediated neuronal excitation. Optovin activates TRPA1 via structure-dependent photochemical reactions with redox-sensitive cysteine residues^[1].

In Vitro

Optovin (1-10 μM) increases Zebrafish embryos motor activity greater than 40 standard deviations above the control mean at the photic stimuli, with an EC₅₀ of 2 μM^[1].
 Optovin (100 μM; 120 s) strongly activates 33% (35/105) of dorsal root ganglia (DRG) neurons^[1].
 Optovin (10 μM; 1 min) activates HEK293T cells transfected with hTrpA1^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Optovin (1-10 μM) causes light-dependent motor excitation in vivo^[1].
 Optovin (15 mM (20 μL); on the ear) elicits nociceptive behaviors in adult mice^[1].

Optovin (10 μ M; 96 h) do not affect the appearance, touch response, heart rate, fin movements, morphology or percentage survival of larvae and adult zebrafish^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Front Mol Neurosci. 2023 Apr 27;16:1166900.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Kokel D, et al. Photochemical activation of TRPA1 channels in neurons and animals. Nat Chem Biol. 2013 Apr;9(4):257-63.

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

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