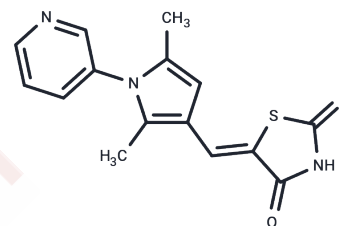


Optovin

Chemical Properties

CAS No. :	348575-88-2
Formula:	C ₁₅ H ₁₃ N ₃ O ₂ S
Molecular Weight:	315.41
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Optovin is a TRPA1 activator, which is reversibly photoactivated.
Targets(IC50)	TRP/TRPV Channel
In vitro	Optovin activates human TRPA1 via structure dependent photochemical reactions. [1]
In vivo	Optovin enables real-time optical control of neurons, and also elicits nociceptive behaviors in adult mice. In animals with severed spinal cords, optovin treatment enables control of motor activity in the paralyzed extremities by localized illumination. [1]

Solubility Information

Solubility	DMSO: 59 mg/mL (187.06 mM),Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), H2O: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (6.34 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1705 mL	15.8524 mL	31.7048 mL
5 mM	0.6341 mL	3.1705 mL	6.341 mL
10 mM	0.317 mL	1.5852 mL	3.1705 mL
50 mM	0.0634 mL	0.317 mL	0.6341 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Kokel D, et al. Nat Chem Biol. 2013, 9(4), 257-263.

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