

Hydroxy- $\alpha$ -sanshool

## Chemical Properties

CAS No. : 83883-10-7

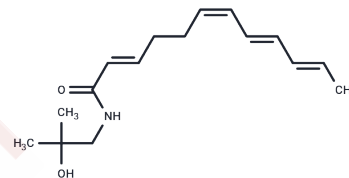
Formula: C<sub>16</sub>H<sub>25</sub>NO<sub>2</sub>

Molecular Weight: 263.38

Store at low temperature

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Hydroxy- $\alpha$ -sanshool is an alkyl amide isolated from the pepper. It acts as a TRPA1 covalent and TRPV1 non-covalent agonist (EC <sub>50</sub> s: 69 and 1.1 $\mu$ M).
Targets(IC <sub>50</sub> )	Endogenous Metabolite,TRP/TRPV Channel

## Solubility Information

Solubility	DMSO: 135 mg/mL (512.57 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (37.97 mM),Suspension. 10% DMSO+90% Corn Oil: 2 mg/mL (7.59 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	3.7968 mL	18.984 mL	37.968 mL
5 mM	0.7594 mL	3.7968 mL	7.5936 mL
10 mM	0.3797 mL	1.8984 mL	3.7968 mL
50 mM	0.0759 mL	0.3797 mL	0.7594 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

Koo JY, et al. Compounds from Sichuan and Melegueta peppers activate, covalently and non-covalently, TRPA1 and TRPV1 channels. Br J Pharmacol. 2009 Aug;157(8):1398-409.

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