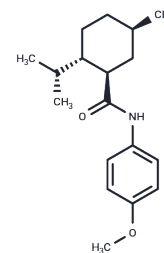


WS-12

Chemical Properties

CAS No. : 68489-09-8
 Formula: C₁₈H₂₇NO₂
 Molecular Weight: 289.41
 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	WS-12 is a potent TRPM8 agonist that acts as a cooling agent (EC ₅₀ : 193 nM)
Targets(IC ₅₀)	TRP/TRPV Channel
In vitro	WS-12, had an EC(50) value about 2000 times lower than that of menthol and is, therefore, the highest-affinity TRPM8 ligand known to date.

Solubility Information

Solubility	DMSO: 41.25 mg/mL (142.53 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2.5 mg/mL (8.64 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	3.4553 mL	17.2765 mL	34.5531 mL
5 mM	0.6911 mL	3.4553 mL	6.9106 mL
10 mM	0.3455 mL	1.7277 mL	3.4553 mL
50 mM	0.0691 mL	0.3455 mL	0.6911 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

Beck B , Bidaux G , Bavencoffe A , et al. Prospects for prostate cancer imaging and therapy using high-affinity TRPM8 activators[J]. Cell Calcium, 2007, 41(3):285-294.

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