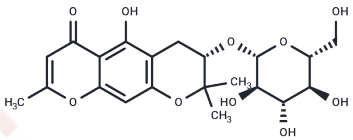
# Data Sheet (Cat.No.T5S0581)

TargetMol

## Sec-O-Glucosylhamaudol

### Chemical Properties



CAS No. : 80681-44-3

Formula: C21H26O10

Molecular Weight: 438.43

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 | Sec-O-Glucosylhamaudol (Hamaudol 3-glucoside) has anti-inflammatory effect through regulation of p38 Mitogen-Activated Protein Kinase in Lipopolysaccharide-stimulated RAW264.7 cell line. Intrathecal Sec-O-Glucosylhamaudol has a very strong antinociceptive effect in the formalin test and it seems the effect is related to an opioid receptor. |
| Targets(IC50) | Opioid Receptor |

### Solubility Information

| | |
|---|---|
| Solubility | DMSO: 80 mg/mL (182.47 mM),Sonication is recommended.<br>Pyridine, Methanol, etc.: Soluble,<br>Ethanol: Soluble,<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (7.53 mM),Sonication is recommended.<br>*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.* |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 2.2809 mL | 11.4043 mL | 22.8087 mL |
| 5 mM | 0.4562 mL | 2.2809 mL | 4.5617 mL |
| 10 mM | 0.2281 mL | 1.1404 mL | 2.2809 mL |
| 50 mM | 0.0456 mL | 0.2281 mL | 0.4562 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

Shen D, et al. Screening active components from Yu-ping-feng-san for regulating initiative key factors in allergic sensitization. PLoS One. 2014 Sep 8;9(9):e107279.
Kim SH, et al. Antinociceptive effect of intrathecal sec-O-glucosylhamaudol on the formalin-induced pain in rats. Korean J Pain. 2017 Apr;30(2):98-103.





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