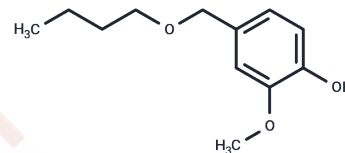


## Vanillyl butyl ether

## Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 82654-98-6  |
| Formula:          | C <sub>12</sub> H <sub>18</sub> O <sub>3</sub>  |
| Molecular Weight: | 210.27  |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br>Actual storage temperature shall be subject to the COA. |



## Biological Description

|               |   |
|---------------|---|
| Description   | Vanillyl butyl ether (Butyl vanillyl ether) (VBE) is a capsaicin analogue, induce sensory irritation in humans, Vanillyl butyl ether is an alkoxy-substituted benzyl derivative mainly used as a flavoring agent. |
| Targets(IC50) | Others, Parasite, TRP/TRPV Channel  |

## Solubility Information

|                     |   |
|---------------------|---|
| Solubility          | DMSO: 45 mg/mL (214.01 mM), Sonication is recommended.<br>( $< 1$ 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 (9.51 mM), Sonication is recommended.<br><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  | 4.7558 mL | 23.779 mL | 47.5579 mL |
| 5 mM  | 0.9512 mL | 4.7558 mL | 9.5116 mL  |
| 10 mM | 0.4756 mL | 2.3779 mL | 4.7558 mL  |
| 50 mM | 0.0951 mL | 0.4756 mL | 0.9512 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

Takaishi M,etal.Reciprocal effects of capsaicin and menthol on thermosensation through regulated activities of TRPV1 and TRPM8.J Physiol Sci. 2016 Mar;66(2):143-55.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481