

Methyl β -D-glucopyranoside

Chemical Properties

| | |
|-------------------|--|
| CAS No. : | 709-50-2 |
| Formula: | C7H14O6 |
| Molecular Weight: | 194.183 |
| Storage: | Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small> |

Biological Description

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| Description | Methyl β -D-glucopyranoside (Methyl β -D-glucoside) is the major compound in the leaf blade of the alpine herb <i>Geum montanum</i> L. It biotransforms glucosides from <i>Pichia etchellsii</i> to higher chain alkyl glucosides via cell-bound β -glucosidase. |
| Targets(IC50) | Others |

Solubility Information

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|------------|---|
| Solubility | H2O: 180.00 mg/mL (926.96 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
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Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 5.1499 mL | 25.7493 mL | 51.4986 mL |
| 5 mM | 1.030 mL | 5.1499 mL | 10.2997 mL |
| 10 mM | 0.515 mL | 2.5749 mL | 5.1499 mL |
| 50 mM | 0.103 mL | 0.515 mL | 1.030 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

Chyba A, et al. Effective enzymatic caffeoylation of natural glucopyranosides. *Bioorg Med Chem Lett.* 2016 Mar 15; 26(6):1567-1570.

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