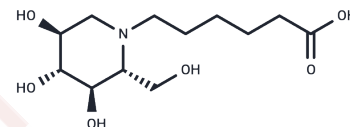


## N-5-Carboxypentyl-1-deoxynojirimycin

## Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 79206-51-2  |
| Formula:          | C <sub>12</sub> H <sub>23</sub> N <sub>1</sub> O <sub>6</sub>   |
| Molecular Weight: | 277.317   |
| 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   | 1-Deoxynojirimycin, a potent glucose analog, inhibits $\alpha$ -glucosidase I and II effectively. Its derivative, N-5-Carboxypentyl-1-deoxynojirimycin, serves as a ligand for glucosidase I and II purification, utilizing carboxypentyl groups for affinity chromatography resin linkage. Furthermore, N-5-Carboxypentyl-1-deoxynojirimycin demonstrates comparable or superior inhibition of glucosidase compared to 1-deoxynojirimycin, with inhibition constants ( $K_i$ ) of 0.45 $\mu$ M and 2.1 $\mu$ M, respectively, for pig liver glucosidase I. |
| Targets(IC50) | Others  |

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 3.6059 mL | 18.0297 mL | 36.0594 mL |
| 5 mM  | 0.7212 mL | 3.6059 mL  | 7.2119 mL  |
| 10 mM | 0.3606 mL | 1.803 mL   | 3.6059 mL  |
| 50 mM | 0.0721 mL | 0.3606 mL  | 0.7212 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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