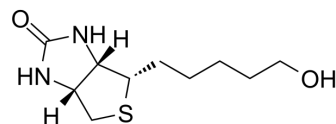


D-Biotinol

| | |
|---------------------------|--|
| Cat. No.: | HY-W096159 |
| CAS No.: | 53906-36-8 |
| Molecular Formula: | C ₁₀ H ₁₈ N ₂ O ₂ S |
| Molecular Weight: | 230 |
| Target: | Endogenous Metabolite |
| Pathway: | Metabolic Enzyme/Protease |
| Storage: | -20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen) |



SOLVENT & SOLUBILITY

| In Vitro | DMSO : 100 mg/mL (434.78 mM; Need ultrasonic) | | | | | | | | | | | | | | | | | | | | | |
|---|--|-----------|------------|---------------|---------------|--|------|------|-------|---------------------------|------|-----------|------------|------------|------|-----------|-----------|-----------|-------|-----------|-----------|-----------|
| | Methanol : 25 mg/mL (108.70 mM; Need ultrasonic) | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>4.3478 mL</td> <td>21.7391 mL</td> <td>43.4783 mL</td> </tr> <tr> <td>5 mM</td> <td>0.8696 mL</td> <td>4.3478 mL</td> <td>8.6957 mL</td> </tr> <tr> <td>10 mM</td> <td>0.4348 mL</td> <td>2.1739 mL</td> <td>4.3478 mL</td> </tr> </tbody> </table> | Solvent | Mass | Concentration | | | 1 mg | 5 mg | 10 mg | Preparing Stock Solutions | 1 mM | 4.3478 mL | 21.7391 mL | 43.4783 mL | 5 mM | 0.8696 mL | 4.3478 mL | 8.6957 mL | 10 mM | 0.4348 mL | 2.1739 mL | 4.3478 mL |
| | Solvent | | | Mass | Concentration | | | | | | | | | | | | | | | | | |
| 1 mg | | 5 mg | 10 mg | | | | | | | | | | | | | | | | | | | |
| Preparing Stock Solutions | 1 mM | 4.3478 mL | 21.7391 mL | 43.4783 mL | | | | | | | | | | | | | | | | | | |
| | 5 mM | 0.8696 mL | 4.3478 mL | 8.6957 mL | | | | | | | | | | | | | | | | | | |
| | 10 mM | 0.4348 mL | 2.1739 mL | 4.3478 mL | | | | | | | | | | | | | | | | | | |
| Please refer to the solubility information to select the appropriate solvent. | | | | | | | | | | | | | | | | | | | | | | |
| In Vivo | 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (10.87 mM); Clear solution | | | | | | | | | | | | | | | | | | | | | |

BIOLOGICAL ACTIVITY

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|--------------------|--|
| Description | D-Biotinol is the nutrition of <i>Lactobacillus arabinosus</i> , <i>L. casei</i> , or <i>Saccharomyces cerevisiae</i> . D-Biotinol replaces the D-biotin (HY-B0511) in saving egg white induced biotin deficiency in rats. D-Biotinol is orally active and displays to be converted to biotin by rats ^[1] . |
|--------------------|--|

REFERENCES

[1]. Dreker L, et al. Utilization of d-Biotinol by Microorganisms, the Rat and Human[J]. Proceedings of the Society for Experimental Biology and Medicine, 1951, 78(2): 381-383.

Caution: Product has not been fully validated for medical applications. For research use only.

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