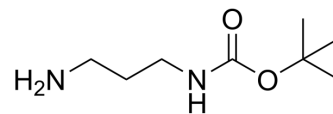


## tert-Butyl (3-aminopropyl)carbamate

|                           |  |
|---------------------------|--|
| <b>Cat. No.:</b>          | HY-40172   |
| <b>CAS No.:</b>           | 75178-96-0   |
| <b>Molecular Formula:</b> | C <sub>8</sub> H <sub>18</sub> N <sub>2</sub> O <sub>2</sub>   |
| <b>Molecular Weight:</b>  | 174.24   |
| <b>Target:</b>            | Biochemical Assay Reagents   |
| <b>Pathway:</b>           | Others   |
| <b>Storage:</b>           | 4°C, protect from light, stored under nitrogen<br>* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen) |



### SOLVENT & SOLUBILITY

| <b>In Vitro</b>                  | DMSO : 100 mg/mL (573.92 mM; Need ultrasonic)  |                          |            |  |  |      |      |       |                                  |  |  |  |      |           |            |            |      |           |           |            |       |           |           |           |
|----------------------------------|--|--------------------------|------------|--|--|------|------|-------|----------------------------------|--|--|--|------|-----------|------------|------------|------|-----------|-----------|------------|-------|-----------|-----------|-----------|
|                                  | <table border="1"> <thead> <tr> <th rowspan="2">Solvent<br/>Concentration</th> <th colspan="3">Mass</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td><b>Preparing Stock Solutions</b></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1 mM</td> <td>5.7392 mL</td> <td>28.6961 mL</td> <td>57.3921 mL</td> </tr> <tr> <td>5 mM</td> <td>1.1478 mL</td> <td>5.7392 mL</td> <td>11.4784 mL</td> </tr> <tr> <td>10 mM</td> <td>0.5739 mL</td> <td>2.8696 mL</td> <td>5.7392 mL</td> </tr> </tbody> </table> | Solvent<br>Concentration | Mass       |  |  | 1 mg | 5 mg | 10 mg | <b>Preparing Stock Solutions</b> |  |  |  | 1 mM | 5.7392 mL | 28.6961 mL | 57.3921 mL | 5 mM | 1.1478 mL | 5.7392 mL | 11.4784 mL | 10 mM | 0.5739 mL | 2.8696 mL | 5.7392 mL |
| Solvent<br>Concentration         | Mass   |                          |            |  |  |      |      |       |                                  |  |  |  |      |           |            |            |      |           |           |            |       |           |           |           |
|                                  | 1 mg   | 5 mg                     | 10 mg      |  |  |      |      |       |                                  |  |  |  |      |           |            |            |      |           |           |            |       |           |           |           |
| <b>Preparing Stock Solutions</b> |  |                          |            |  |  |      |      |       |                                  |  |  |  |      |           |            |            |      |           |           |            |       |           |           |           |
| 1 mM                             | 5.7392 mL  | 28.6961 mL               | 57.3921 mL |  |  |      |      |       |                                  |  |  |  |      |           |            |            |      |           |           |            |       |           |           |           |
| 5 mM                             | 1.1478 mL  | 5.7392 mL                | 11.4784 mL |  |  |      |      |       |                                  |  |  |  |      |           |            |            |      |           |           |            |       |           |           |           |
| 10 mM                            | 0.5739 mL  | 2.8696 mL                | 5.7392 mL  |  |  |      |      |       |                                  |  |  |  |      |           |            |            |      |           |           |            |       |           |           |           |
|                                  | Please refer to the solubility information to select the appropriate solvent.  |                          |            |  |  |      |      |       |                                  |  |  |  |      |           |            |            |      |           |           |            |       |           |           |           |
| <b>In Vivo</b>                   | <ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline<br/>Solubility: ≥ 2.5 mg/mL (14.35 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline)<br/>Solubility: ≥ 2.5 mg/mL (14.35 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil<br/>Solubility: ≥ 2.5 mg/mL (14.35 mM); Clear solution</li> </ol>  |                          |            |  |  |      |      |       |                                  |  |  |  |      |           |            |            |      |           |           |            |       |           |           |           |

### BIOLOGICAL ACTIVITY

|                    |   |
|--------------------|---|
| <b>Description</b> | tert-Butyl (3-aminopropyl)carbamate is a biochemical reagent that can be used as a biological material or organic compound for life science related research.   |
| <b>In Vitro</b>    | N-Boc-1,3-propanediamine plays a key role in the synthesis of spermidine analogues and the suzuki reaction. MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

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

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