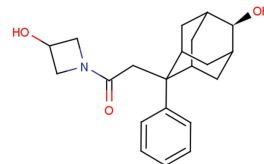


(R)-BMS-816336

**Chemical Properties**

|                   |  |
|-------------------|--|
| CAS No.:          | 1009583-83-8   |
| Formula:          | C <sub>21</sub> H <sub>27</sub> NO <sub>3</sub>                        |
| Molecular Weight: | 341.44   |
| Appearance:       | N/A  |
| Storage:          | 0-4°C for short term (days to weeks), or -20°C for long term (months). |

**Biological Description**

|                            |  |
|----------------------------|--|
| Description                | (R)-BMS-816336 is a potent and orally active inhibitor of human, mouse and cynomolgus monkey 11 $\beta$ -hydroxysteroid dehydrogenase type 1 (11 $\beta$ -HSD1) enzyme (IC <sub>50</sub> s of 14.5 nM, 50.3 nM and 16 nM, respectively).   |
| Targets(IC <sub>50</sub> ) | Human 11 $\beta$ -HSD1: 14.5 nM<br>Mouse 11 $\beta$ -HSD1: 50.3 nM<br>Cynomolgus monkey 11 $\beta$ -HSD1: 16 nM  |
| In vivo                    | The interconversion of BMS-816336 and (R)-BMS-816336 take place via the intermediate Ketone A through physiological oxidation and reduction process. In vivo studies in rat, dog, and cynomolgus monkey, the plasma ratios of (R)-BMS-816336/BMS-816336 decrease in the order: dog $\gg$ rat > cynomolgus monkey[1]. |

**Solubility Information**

|            |   |
|------------|---|
| Solubility | DMSO: 300 mg/mL (878.63 mM)<br>( < 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

## Preparing Stock Solutions

|       | 1mg      | 5mg       | 10mg      |
|-------|----------|-----------|-----------|
| 1 mM  | 2.929 mL | 14.644 mL | 29.288 mL |
| 5 mM  | 0.586 mL | 2.929 mL  | 5.858 mL  |
| 10 mM | 0.293 mL | 1.464 mL  | 2.929 mL  |
| 50 mM | 0.059 mL | 0.293 mL  | 0.586 mL  |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Ye XY, et al. Discovery of Clinical Candidate 2-((2S,6S)-2-Phenyl-6-hydroxyadamantan-2-yl)-1-(3'-hydroxyazetidin-1-yl)ethanone [BMS-816336], an Orally Active Novel Selective 11 $\beta$ -Hydroxysteroid Dehydrogenase Type 1 Inhibitor. J Med Chem. 2017 Jun 22;60(12):4932-4948.

Inhibitors · Natural Compounds · Compound Libraries

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use.

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