

Product Data Sheet

Product Name: BMS-816336

Cat. No.: GC65146

Chemical Properties

Cas. No. 1009583-20-3

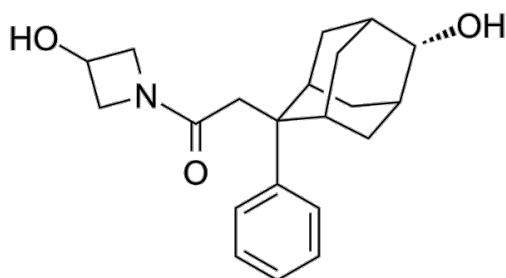
Formula C₂₁H₂₇NO₃ M.Wt 341.44

Solubility DMSO : 300 mg/mL (878.63 mM; Storage Store at -20°C
Need ultrasonic)

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

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

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BMS-816336 is a novel, potent and orally bioavailable inhibitor against human 11 β -hydroxysteroid dehydrogenase type 1 (11 β -HSD1) enzyme with an IC₅₀ of 3.0 nM[1].

11 β -HSD1 inhibition may be useful in the treatment of type II diabetes and other potential clinical utilities such as atheroprotection and cognitive protection. BMS-816336 (6n-2) inhibits 11 β -HSD1 enzyme in HEK and 3T3L1 cells with IC₅₀s of 37.3 and 28.6 nM, respectively[1].

BMS-816336 represents a potential new treatment for type 2 diabetes, metabolic syndrome, and other human diseases modulated by glucocorticoid control. BMS-816336 (6n-2) exhibits a robust acute pharmacodynamic effect in cynomolgus monkeys (ED₅₀=0.12 mg/kg) and in DIO mice (1, 3, 10, 30, 100 mg/kg, 120 minutes). It is orally bioavailable (%F ranges from 20 to 72% in preclinical species) and has a predicted pharmacokinetic profile of a high peak to trough ratio and short half-life in humans[1].

[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 β -Hydroxysteroid Dehydrogenase Type 1 Inhibitor. J Med Chem. 2017 Jun 22;60(12):4932-4948.

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