

Product Data Sheet

Product Name: 4-Piperidyl N-(2-biphenyl)carbamate

Cat. No.: GC79295

Chemical Properties

Cas. No. 171722-92-2

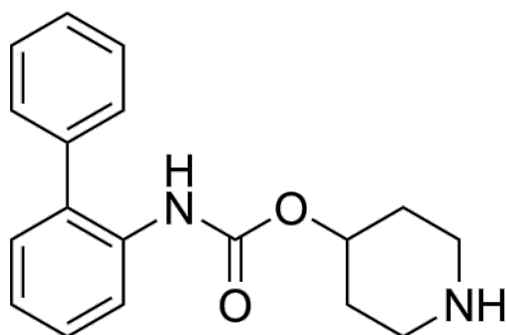
Formula $C_{18}H_{20}N_2O_2$ M.Wt 296.37

Solubility DMSO: 25 mg/mL (84.35 mM; Need ultrasonic) Storage Store at 4°C, protect from light

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



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

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Background

4-Piperidyl N-(2-biphenyl)carbamate (compound MA) is a competitive muscarinic acetylcholine receptor (mAChR) antagonist. 4-Piperidyl N-(2-biphenyl)carbamate exhibits higher affinity for M₂ and M₃ mAChR than β ₂ AR (M₂ pK_i = 7.33; M₃ pK_i = 7.51; β ₂ AR pK_i = 4.94) [1].

References:

[1]. Steinfeld T, et al. THRX-198321 is a bifunctional muscarinic receptor antagonist and beta₂-adrenoceptor agonist (MABA) that binds in a bimodal and multivalent manner. Mol Pharmacol. 2011 Mar;79(3):389-99.

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