

Product Data Sheet

Product Name: Baeocystin-d4

Cat. No.: GC52313

Chemical Properties

Cas. No.

SMILES O=P(O)(OC1=CC=CC2=C1C(C([2H])([2H])C([2H])([2H])NC)=CN2)O

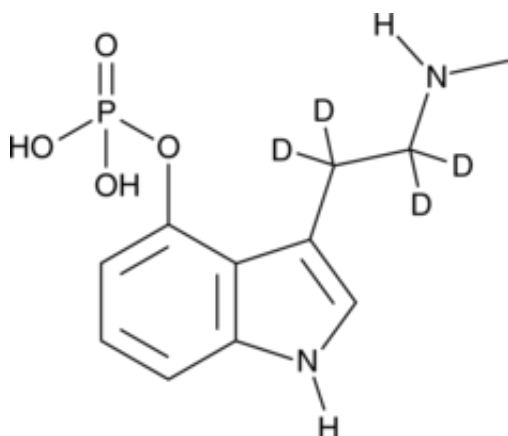
Formula $C_{11}H_{11}D_4N_2O_4P$ M.Wt 274.2

Solubility PBS (pH 7.2): slightly soluble Storage Store at -20°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



Background

Baeocystin-d4 is intended for use as an internal standard for the quantification of baeocystin by GC- or LC-MS. Baeocystin is categorized as a tryptamine.¹ It is an intermediate in the biosynthesis of psilocybin in mushrooms.² Unlike psilocybin, baeocystin does not induce the head-twitch response (HTR) in mice. This product is intended for research and forensic applications.

1. Sherwood, A.M., Halberstadt, A.L., Klein, A.K., et al. Synthesis and biological evaluation of tryptamines found in hallucinogenic mushrooms: Norbaeocystin, baeocystin, norpsilocin, and aeruginascin. *J. Nat. Prod.* 83(2)461-467 (2020) 2. Fricke, J., Blei, F., and Hoffmeister, D. Enzymatic

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

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synthesis of psilocybin *Angew. Chem. Int. Ed. Engl.* 56(40)12352-12355(2017)

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