

Product Data Sheet

Product Name: ATPA
Cat. No.: GC38497

Chemical Properties

Cas. No. 140158-50-5

SMILES O=C(O)C(N)CC1=C(C(C)(C)C)ONC1=O

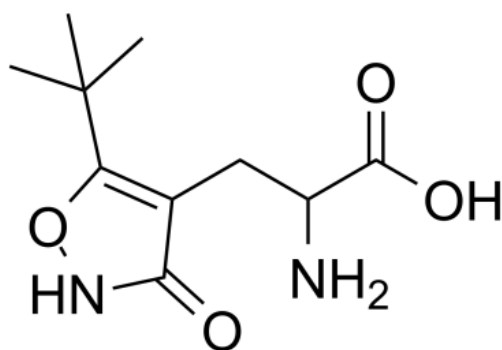
Formula C10H16N2O4 M.Wt 228.25

Solubility DMSO : ≥ 100 mg/mL (438.12 mM) Storage Store at -20°C

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

ATPA is a selective glutamate receptor GluR5 activator with EC₅₀s of 0.66, 9.5, 1.4, 23, 32, 18, and 14 μ M for GluR5wt, GluR5(S741M), GluR5(S721T), GluR5(S721T, S741M), GluR5(S741A), GluR5(S741L), and GluR5(S741V), respectively[1].

ATPA also activates GluR1wt, GluR1(M722S), GluR1(T700S), GluR1(T700S, M722S), GluR1(M722A) with EC₅₀s of 62, 4.6, 97, 14, 97 μ M, respectively[1].

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

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[1]. Nielsen MM, et al. The selective activation of the glutamate receptor GluR5 by ATPA is controlled by serine 741. Mol Pharmacol. 2003 Jan;63(1):19-25.

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