

Product Data Sheet

Product Name: TTK21
Cat. No.: GC45094

Chemical Properties

Cas. No. 709676-56-2

SMILES C1C=CC=C(NC(C2=CC=CC=C2OCCC)=O)C=C1C(F)(F)F

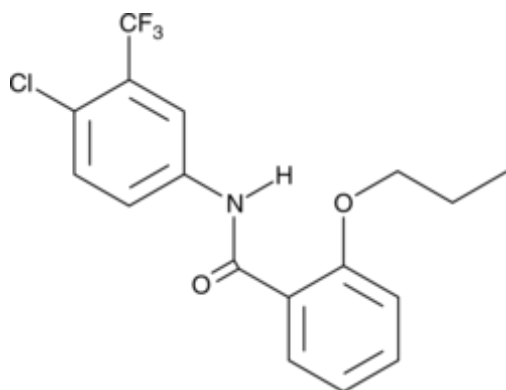
Formula C₁₇H₁₅ClF₃NO₂ M.Wt 357.8

Solubility DMF: 3 mg/ml, DMSO: 5 mg/ml, DMSO:PBS (pH 7.2) (1:1): 0.5 mg/ml, Ethanol: 2 mg/ml
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

TTK21 is an activator of CBP/p300 histone acetyltransferase activity. It activates CBP/p300 histone acetyltransferase activity in a concentration-dependent manner with a maximal effect at a concentration of 275 μM, inducing acetylation of histones H3 and H4 in vitro but not H2B and H2A. TTK21, conjugated to glucose-based carbon nanospheres (CSP), crosses the blood-brain barrier and increases histone acetylation of H2B and H3 as well as H4K12 in mouse frontal cortex and H2B and H3 in the dorsal hippocampus and brainstem. CSP-TTK21 (20 mg/kg) also induces differentiation and maturation of neuronal progenitors in the subgranular zone of the dentate gyrus in adult mice and

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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increases memory duration in the Morris water maze with mice spending more time in the platform quadrant compared with untreated mice up to 16 days after learning.

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