

Product Data Sheet

Product Name: FK962
Cat. No.: GC38911

Chemical Properties

Cas. No. 283167-06-6

SMILES O=C(NC1CCN(C(C)=O)CC1)C2=CC=C(F)C=C2

Formula $C_{14}H_{17}FN_2O_2$ M.Wt 264.3

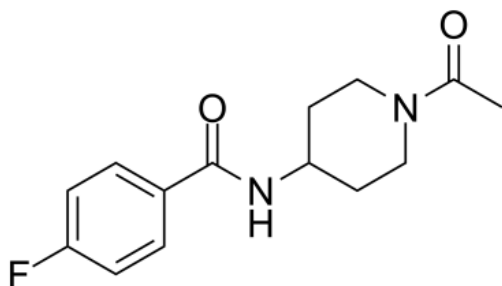
Solubility DMSO : 250 mg/mL (945.89 mM; Need ultrasonic); H_2O : 2 mg/mL (7.57 mM; ultrasonic and warming and heat to 60°C)

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

FK962 is an enhancer of somatostatin release, exerts cognitive-enhancing actions[1].

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

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FK962 (1 nM-1 μ M) significantly enhances high K⁺-evoked somatostatin release from rat hippocampal slices. FK962 also significantly reduces somatostatin-induced inhibition of Ca²⁺ channels at 1-100 nM in single rat hippocampal neurons using whole-cell patch-clamp[1].

FK962 (0.1, 0.3 or 1.0 mg/kg; i.p.) and Donepezil (a single dose of 1 mg/kg) act synergistically to improve cognition in rats: as an add-on therapy for Alzheimer's disease[2]. Animal Model: Male Lister Hooded rats, weighing approximately 270-300[2]

[1]. Tokita K, et al. FK962, a novel enhancer of somatostatin release, exerts cognitive-enhancing actions in rats. Eur J Pharmacol. 2005 Dec 19;527(1-3):111-20. [2]. McCarthy AD, et al. FK962 and donepezil act synergistically to improve cognition in rats: potential as an add-on therapy for Alzheimer's disease. Pharmacol Biochem Behav. 2011 Mar;98(1):76-80.

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