

Product Data Sheet

Product Name: Ro 67-7476

Cat. No.: GC12485

Chemical Properties

Cas. No. 298690-60-5

Chemical Name (S)-2-(4-fluorophenyl)-1-tosylpyrrolidine

SMILES FC1=CC=C(C=C1)[C@H](CCC2)N2S(=O)(C3=CC=C(C)C=C3)=O

Formula $C_{17}H_{18}FNO_2S$ M.Wt 319.39

Solubility DMSO: 30 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.

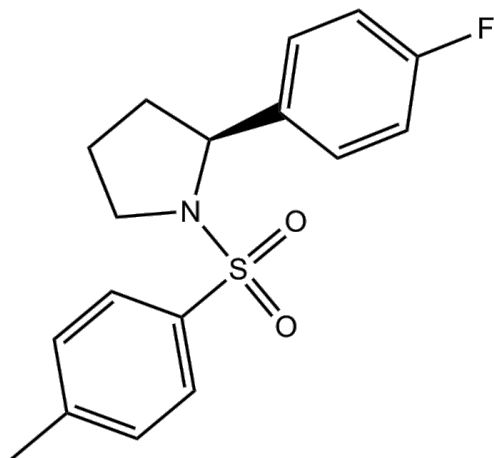
Caution: Product has not been fully validated for medical applications. For research use only.

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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Structure



Background

Ro 67-7476 is a positive allosteric modulator of mGlu1 receptors. Displays no activity at human mGlu1 receptors. Potentiates glutamate-induced calcium release with EC 50 of 60.1 nM. target: mGlu1 EC 50: 60.1 nM(1) Ro 67-7476 (10 μ M) can directly block the GIRK channel (to $67 \pm 2\%$ of control). (2) Ro 67-7476 enhance the glutamate-induced current in all chimeric receptors containing the transmembrane (TM) region of rmGlu1a (R1, R1-R5N, R1-R5C, and R5-R1TM) but not in those containing the TM region of rmGlu5a (R5, R5-R1N, R5-R1C, and R1-R5TM).(3) The application of Ro 67-7476 (3 μ M) produced no effect alone but resulted in a marked potentiation of the mGlu1 EPSC amplitude.

References:

- [1]. Hemstapat K et al. A novel class of positive allosteric modulators of metabotropic glutamate receptor subtype 1 interact with a site distinct from that of negative allosteric modulators. Mol Pharmacol. 2006 Aug, 70(2), 616-26
- [2]. Knoflach F et al. Positive allosteric modulators of metabotropic glutamate 1 receptor:

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characterization, mechanism of action, and binding site. Proc Natl Acad Sci U S A. 2001 Nov 6;98(23):13402-7.

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