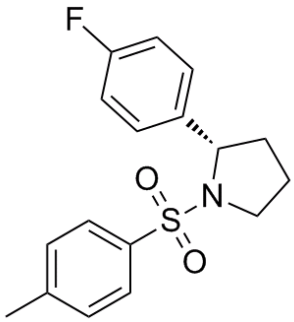
Data Sheet



Product Name:	Ro 67–7476
Cat. No.:	HY-100403
CAS No.:	298690-60-5
Molecular Formula:	$C_{17}H_{18}FNO_2S$
Molecular Weight:	319.39
Target:	mGluR
Pathway:	GPCR/G Protein
Solubility:	DMSO: ≥ 40 mg/mL

BIOLOGICAL ACTIVITY:

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 μM) can directly block the GIRK channel (to 67 ± 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 μM) 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: 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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