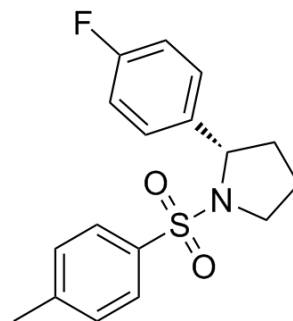


Data Sheet

Product Name:	Ro 67-7476
Cat. No.:	HY-100403
CAS No.:	298690-60-5
Molecular Formula:	C ₁₇ H ₁₈ FNO ₂ S
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 mGlu1a (R1, R1-R5N, R1-R5C, and R5-R1TM) but not in those containing the TM region of mGlu5a (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.

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

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