

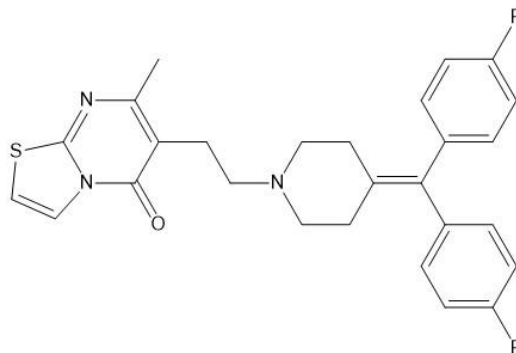
Catalog # 10-3579

R-59022

CAS# 93076-89-2

6-[2-[4-[(4-Fluorophenyl)phenylmethylene]-1-piperidinyl]ethyl]-7-methyl-5H-thiazolo[3,2-a]pyrimidin-5-one

Lot # X101561



R-59022 (93076-89-2) is a diacylglycerol kinase (DAGK) inhibitor, nonselective for DAGK isotypes ($IC_{50}=2.8 \mu\text{M}$ in intact platelets).¹ Induces autophagy and apoptosis in NG108-15 neuronal cells via an mTOR-independent mechanism.² Prevents conjugated linoleic acid-mediated inflammatory signaling and insulin resistance in human adipocytes.³ Blocks filovirus internalization in host cells.⁴

- 1) de Chaffoy de Courcelles *et al.* (1985), *R 59 022, a diacylglycerol kinase inhibitor. Its effect on diacylglycerol and thrombin-induced C kinase activation in the intact platelet*; J. Biol. Chem., **260** 15762
- 2) Takita *et al.* (2011), *Diacylglycerol kinase inhibitor R59022-induced autophagy and apoptosis in the neuronal cell line NG108-15*; Arch. Biochem. Biophys., **509** 197
- 3) Martinez *et al.* (2013), *Diacylglycerol kinase inhibitor R59022 attenuates conjugated linoleic acid-mediated inflammation in human adipocytes*; J. Lipid Res., **54** 662
- 4) Stewart *et al.* (2019), *A Diacylglycerol Kinase Inhibitor, R-59-022, Blocks Filovirus Internalization in Host Cells*; Viruses, **11** 206

PHYSICAL DATA

Molecular Weight:	459.58
Molecular Formula:	C ₂₇ H ₂₆ FN ₃ OS
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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