BAY 59-9435

Cat. No.: HY-102056

CAS No.: 654059-21-9

Molecular Formula: $C_{14}H_{22}N_2O_3$

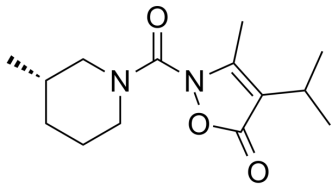
Molecular Weight: 266.34

Target: Others

Pathway: Others

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (375.46 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	3.7546 mL	18.7730 mL	37.5460 mL
	5 mM	0.7509 mL	3.7546 mL	7.5092 mL
	10 mM	0.3755 mL	1.8773 mL	3.7546 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: 5 mg/mL (18.77 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 5 mg/mL (18.77 mM); Clear solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: 5 mg/mL (18.77 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

BAY 59-9435 is a potent and selective inhibitor of Hormone Sensitive Lipase (HSL), with an IC_{50} of 0.023 μM.

IC_{50} & Target

IC50: 0.023 μM (HSL)[1].

In Vitro

BAY 59-9435 significantly diminishes the isoproterenol-increased media IL-6. BAY 59-9435 blocks isoproterenol-induced SphK1 expression[3].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis[3]

Cell Line:	3T3-L1 cells.
Concentration:	10 μM.
Incubation Time:	1 h.
Result:	Pretreatment with BAY completely abrogated the induction of SphK1 expression by CL.

CUSTOMER VALIDATION

- Cell Metab. 2022 Dec 6;34(12):1960-1976.e9.
- Research Square Preprint. 2023 Jul 13.

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REFERENCES

[1]. Ebdrup S, et al. Synthesis and structure-activity relationship for a novel class of potent and selective carbamoyl-triazole based inhibitors of hormone sensitive lipase. J Med Chem. 2004 Jan 15;47(2):400-10.

[2]. Elizabeth A Rondini, et al. Novel Pharmacological Probes Reveal ABHD5 as a Locus of Lipolysis Control in White and Brown AdipocytesJ Pharmacol Exp Ther. 2017 Dec;363(3):367-376.

[3]. Wenliang Zhang, et al. Adipocyte lipolysis-stimulated interleukin-6 production requires sphingosine kinase 1 activity. J Biol Chem. 2014 Nov 14;289(46):32178-85.

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