S19-1035

Cat. No.: HY-152189

Molecular Formula: $C_{19}H_{17}ClN_2O_3$

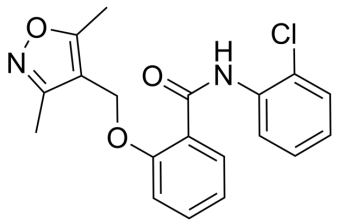
Molecular Weight: 356.8

Target: Others

Pathway: Others

Storage:

Powder	-20°C	3 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (350.34 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.8027 mL	14.0135 mL	28.0269 mL
	5 mM	0.5605 mL	2.8027 mL	5.6054 mL
	10 mM	0.2803 mL	1.4013 mL	2.8027 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: 2.08 mg/mL (5.83 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (5.83 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

S19-1035 is a highly potent and specific aldo-keto reductase 1C3 (AKR1C3) inhibitor. S19-1035 inhibits AKR1C3 with an IC_{50} value of 3.04 nM. S19-1035 can be used for the research of tumor[1].

IC_{50} & Target

IC50: 3.04 nM (AKR1C3)[1]

In Vitro

S19-1035 exhibits inhibitory activity for AKR1C3 with an IC_{50} value of 3.04 nM[1].
S19-1035 (0-100 μM; 72 h or 96 h) has less cytotoxic and had limited antitumor effects when used alone[1].
S19-1035 (10 μM; 8 days) significantly reversed the doxorubicin (DOX) resistance in a resistant breast cancer cell line in co-administration[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Cytotoxicity Assay[1]

Cell Line:	MDA-MB-231, MCF-7 and MCF-7/DOX cells
Concentration:	0-100 μM
Incubation Time:	72 h or 96 h
Result:	Had weak antiproliferative effects in all three breast cancer cell lines.

REFERENCES

[1]. Yang Liu, et al. Development of highly potent and specific AKR1C3 inhibitors to restore the chemosensitivity of drug-resistant breast cancer. Eur J Med Chem. 2022 Dec 13;247:115013.

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