Nastorazepide

Cat. No.: HY-17617

CAS No.: 209219-38-5

Molecular Formula: $C_{29}H_{36}N_4O_5$

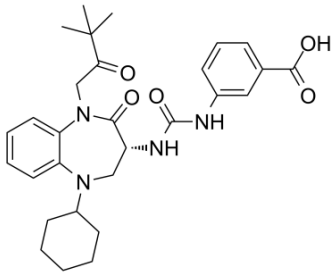
Molecular Weight: 520.62

Target: Cholecystokinin Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 32 mg/mL (61.47 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.9208 mL	9.6039 mL	19.2079 mL
5 mM	0.3842 mL	1.9208 mL	3.8416 mL
10 mM	0.1921 mL	0.9604 mL	1.9208 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.08 mg/mL (4.00 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (4.00 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Nastorazepide (Z-360) is a selective, orally available, 1,5-benzodiazepine-derivative gastrin/cholecystokinin 2 (CCK-2) receptor antagonist with potential antineoplastic activity. Target：CCK-2in vitro: Z-360 binds to the gastrin/CCK-2 receptor, thereby preventing receptor activation by gastrin, a peptide hormone frequently associated with the proliferation of gastrointestinal and pancreatic tumor cells. Check for active clinical trials or closed clinical trials using this agent. in vivo: Z-360 is a novel orally active CCK-2/gastrin receptor antagonist, significantly inhibits the growth of subcutaneous xenografts of human pancreatic tumor cells in mice, and that Z-360 combined with gemcitabine prolonged survival in a pancreatic carcinoma orthotopic xenograft mice.

REFERENCES

[1]. Kato H, et al. CCK-2/gastrin receptor signaling pathway is significant for gemcitabine-induced gene expression of VEGF in pancreatic carcinoma cells. Life Sci. 2011 Oct 24;89(17-18):603-8.

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