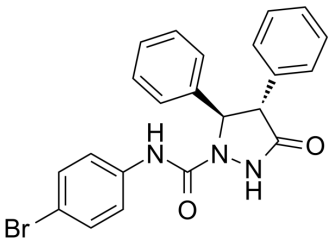
LY288513

Cat. No.:	HY-103357
CAS No.:	147523-65-7
Molecular Formula:	$C_{22}H_{18}BrN_3O_2$
Molecular Weight:	436.3
Target:	Cholecystokinin Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	LY288513 is a selective non-peptide CCK-B receptor antagonist with an IC_{50} value of 16 nM. LY288513 produces an anxiolytic-like action in mice[1][2][3].
IC_{50} & Target	IC50: 16 nM (CCK-B receptor)[1]

In Vitro

LY288513 (10 nM; 2 days) suppresses the effects of CCK-8 on $CD4^+$ T cell subset-specific transcription factors[2].

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

RT-PCR[2]

Cell Line:	$CD4^+$ T cells
Concentration:	10 nM
Incubation Time:	2 days
Result:	Suppressed the effects of CCK-8 on $CD4^+$ T cell subset-specific transcription factors.

In Vivo

LY288513 (3, 10 mg/kg, i.p.; 10, 30 mg/kg, p.o.) produces an anxiolytic-like action in mice[3].

LY288513 (1000 mg/kg, p.o.) potentiates the effects of a CNS depressant, slightly lowered body temperature, and had modest sedative effects only at the highest dose examined[3].

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

Animal Model:	Male CD-l mice[3]
Dosage:	3, 10 mg/kg; 10, 30 mg/kg
Administration:	I.p.; p.o.
Result:	Displayed anxiolytic-like effects in the elevated plusmaze.

REFERENCES

[1]. Rasmussen K. CCK, schizophrenia, and anxiety. CCK-B antagonists inhibit the activity of brain dopamine neurons. Ann N Y Acad Sci. 1994 Mar 23;713:300-11.

[2]. Zhang JG, et al. Cholecystokinin octapeptide regulates the differentiation and effector cytokine production of CD4(+) T cells in vitro. Int Immunopharmacol. 2014;20(2):307-315.

[3]. Helton DR, et al. Central nervous system characterization of the new cholecystokininB antagonist LY288513. Pharmacol Biochem Behav. 1996 Mar;53(3):493-502.

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