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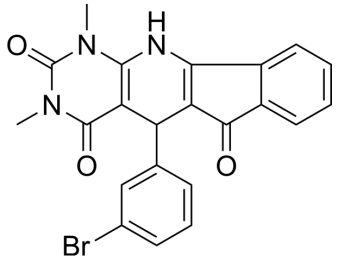
BPIPP

Cat. No.:	HY-107547
CAS No.:	325746-94-9
Molecular Formula:	$C_{22}H_{16}BrN_3O_3$
Molecular Weight:	450.28
Target:	Guanylate Cyclase; Adenylate Cyclase
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	BPIPP is a guanylyl cyclase type C (GC-C) and adenylyl cyclase inhibitor that can suppress cyclic nucleotide synthesis. BPIPP inhibits chloride-ion transport stimulated by activation of guanylyl or adenylyl cyclases, and has the potential for diarrhea research[1].
In Vitro	BPIPP suppresses stable toxin (STa)-stimulated cGMP accumulation by decreasing GC-C activation in intact T84 human colorectal carcinoma cells. BPIPP inhibits stimulation of guanylyl cyclases, including types A and B and soluble isoform in various cells. BPIPP suppresses stimulation of adenylyl cyclase and significantly decreases the activities of adenylyl cyclase toxin of Bordetella pertussis and edema toxin of Bacillus anthracis. The effects of BPIPP on cyclic nucleotide synthesis were observed only in intact cells[1]. BPIPP inhibits chloride-ion transport stimulated by activation of guanylyl or adenylyl cyclases and suppressed STa-induced fluid accumulation in an in vivo rabbit intestinal loop model[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Alexander Y Kots, et al. Pyridopyrimidine derivatives as inhibitors of cyclic nucleotide synthesis: Application for treatment of diarrhea. Proc Natl Acad Sci U S A. 2008 Jun 17;105(24):8440-5.

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