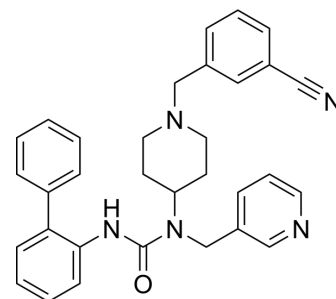


BPU-11

Cat. No.:	HY-119102		
CAS No.:	909664-41-1		
Molecular Formula:	C ₃₂ H ₃₁ N ₅ O		
Molecular Weight:	501.62		
Target:	HCN Channel		
Pathway:	Membrane Transporter/Ion Channel		
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 : 125 mg/mL (249.19 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.9935 mL	9.9677 mL	19.9354 mL
5 mM	0.3987 mL	1.9935 mL	3.9871 mL
10 mM	0.1994 mL	0.9968 mL	1.9935 mL

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

BIOLOGICAL ACTIVITY

Description

BPU-11 is a hyperpolarization-activated cyclic nucleotide-gated (HCN) C-linker pocket (CLP) HCN4 CLP ligand. BPU-11 can be used for the research of congenital immune disease^[1].

In Vitro

BPU-11 (100 μM) abolishes the HCN4 cAMP-induced shift in V_{1/2} with a k_{1/2} of 0.42 μM^[1].
 BPU (100 and 200 μM) is specific of the HCN4 isoform and shows no effect on human HCN2 channels expressed in HEK293T cells^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Lolicato M, et al. Cyclic dinucleotides bind the C-linker of HCN4 to control channel cAMP responsiveness. Nat Chem Biol. 2014 Jun;10(6):457-62.

Caution: Product has not been fully validated for medical applications. For research use only.

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