## Afacifenacin

**MedChemExpress** 

Cat. No.:HY-14828CAS No.:877606-63-8Molecular Formula: $C_{27}H_{26}F_3N_3O_2$ Molecular Weight:481.51Target:mAChRPathway:GPCR/G Protein; Neuronal SignalingStorage:Please store the product under the recommended conditions in the Certificate of Analysis.	
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**Product** Data Sheet

BIOLOGICAL ACTIVITY		
Description	Afacifenacin (SMP-986) is a potent and orally active muscarinic receptor antagonist. Afacifenacin inhibits the bladder afferent pathway through the sodium-channel blockade, increasing volume, and reducing the frequency of urination and incontinence. Afacifenacin has the potential for the research of overactive bladder (OAB) <sup>[1][2]</sup> .	
In Vivo	pressure (MP) in cerebra	g/kg; Intragastric administration) significantly increases bladder capacity and reduced micturition al infarction rats <sup>[2]</sup> . ently confirmed the accuracy of these methods. They are for reference only. Male Sprague-Dawley rats (cerebral infarction model) <sup>[2]</sup>
	Dosage: Administration: Result:	0.3, 1, 3 mg/kg Intragastric administration Significantly increased bladder capaticy and reduced micturition pressure (MP) without affecting residual urinary volume (RUV).

## REFERENCES

[1]. Yeo EK, et al. New therapies in the treatment of overactive bladder. Expert Opin Emerg Drugs. 2013 Sep;18(3):319-37.

[2]. Natsuko Goto, et al. Dual inhibition of Na+-channel and muscarinic receptor by SMP-986 efficiently improved voiding function compared to anti-muscarinic agents in two conscious rat models of detrusor overactivity. The Journal of Urology. 2008, 179, 129.

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

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