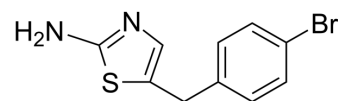


NS19504

Cat. No.:	HY-110153		
CAS No.:	327062-46-4		
Molecular Formula:	C ₁₀ H ₉ BrN ₂ S		
Molecular Weight:	269.16		
Target:	Potassium Channel		
Pathway:	Membrane Transporter/Ion Channel		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (371.53 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	3.7153 mL	18.5763 mL	37.1526 mL
	5 mM	0.7431 mL	3.7153 mL	7.4305 mL
	10 mM	0.3715 mL	1.8576 mL	3.7153 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (7.73 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	NS19504 is a Ca ²⁺ -activated K ⁺ channel (BK channel, KCa1.1 channel) activator (EC ₅₀ =11.0 μM) with relaxing effect on bladder smooth muscle spontaneous phasic contractions ^[1] .
IC ₅₀ & Target	EC ₅₀ : 11.0 μM (BK channel) ^[1]
In Vitro	NS19504 increases BK currents in freshly isolated guinea pig bladder smooth muscle cells and whole-cell. NS19504 increases the whole-cell currents response to 127 %, 194 %, 258 %, 561 % of control at a concentration of 0.32 μM, 1.0 μM, 3.2 μM and 10 μM, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Nausch B, et al. NS19504: a novel BK channel activator with relaxing effect on bladder smooth muscle spontaneous phasic contractions. J Pharmacol Exp Ther. 2014 Sep;350(3):520-30.

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

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