TCS 46b

Cat. No.:	HY-107707				
CAS No.:	302799-86-6				
Molecular Formula:	C ₂₂ H ₂₃ N ₃ O				
Molecular Weight:	345.44				
Target:	iGluR				
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling				
Storage:	Powder	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	6 months		
		-20°C	1 month		

SOLVENT & SOLUBILITY

Preparing Stock Solutions		Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.8949 mL	14.4743 mL	28.9486 mL	
	5 mM	0.5790 mL	2.8949 mL	5.7897 mL	
	10 mM	0.2895 mL	1.4474 mL	2.8949 mL	

BIOLOGICALIACIA				
Description	TCS 46b (Compound 46b) is a potent, selective and orally active NMDA NR1A/2B receptor antagonist with an IC ₅₀ of 5.3 nM ^[1] . TCS 46b is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAc) with molecules containing Azide groups.			
IC ₅₀ & Target	IC50: 5.3 nM (NR1A/2B), 35 μM (NR1A/2A), >100 μM (NR1A/2C), 0.5 μM (α-1 adrenergic receptor), 2.6 μM (dopamine D2) ^[1]			
In Vivo	TCS 46b (Compound 46b MCE has not independer	Compound 46b; 10 and 30 mg/kg; p.o. or i.p.; once) potentiates the effects of L-DOPA in the 6-OHDA-lesioned rat ^[1] . not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	Sprague–Dawley rats, 6-hydroxydopamine-lesioned (6-OHDA) rat model $^{[1]}$		
	Dosage:	10 and 30 mg/kg		
	Administration:	PO or IP, once		





Product Data Sheet

Result:

REFERENCES

[1]. Wright JL, et al. Subtype-selective N-methyl-D-aspartate receptor antagonists: synthesis and biological evaluation of 1-(heteroarylalkynyl)-4-benzylpiperidines. J Med Chem. 2000 Sep 7;43(18):3408-19.

[2]. Wright JL, et al. Subtype-selective N-methyl-D-aspartate receptor antagonists: synthesis and biological evaluation of 1-(heteroarylalkynyl)-4-benzylpiperidines. J Med Chem. 2000 Sep 7;43(18):3408-19.

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

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