Panamesine

Cat. No.:	HY-136280		
CAS No.:	139225-22-2	2	
Molecular Formula:	C ₂₃ H ₂₆ N ₂ O ₆		
Molecular Weight:	426.46		
Target:	Sigma Rece	ptor	
Pathway:	Neuronal Si	ignaling	
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

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SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg	
	Preparing Stock Solutions	1 mM	2.3449 mL	11.7244 mL	23.4489 mL	
		5 mM	0.4690 mL	2.3449 mL	4.6898 mL	
		10 mM	0.2345 mL	1.1724 mL	2.3449 mL	
	Please refer to the so	Please refer to the solubility information to select the appropriate solvent.				
Solubility: ≥ 3 2. Add each sol		ent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline 79 mg/mL (8.89 mM); Suspended solution				
		dd each solvent one by one: 10% DMSO >> 90% corn oil olubility: ≥ 2.08 mg/mL (4.88 mM); Clear solution				

BIOLOGICAL ACTIV	ТТҮ
Description	Panamesine (EMD 57445) is a sigma receptor ligand, which has a high affinity (IC ₅₀ 6 nM) and selectivity for sigma binding sites. Panamesine is a potential atypical neuroleptic agent ^[1] .
IC ₅₀ & Target	IC50: 6 nM (sigma receptor) ^[1]
In Vivo	Panamesine (EMD 57445; 0.3, 1, 3, 30 mg/kg) induces a dose-dependent increase of c-fos expression in several cortical areas with the strongest signals in the piriform cortex ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.



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Animal Model:	Female Sprague Dawley rats aged 2 months with a body weights of 200-250 ${ m g}^{[1]}$
Dosage:	0.3, 1, 3, 30 mg/kg
Administration:	Subcutanous injections
Result:	Specific c-fos gene expression was detected at all concentrations (0.3 mg/kg, 1 mg/kg, 3 mg/kg, 30 mg/kg) tested in frontal, parietal, perirhinal, temporal, piriform, insular, limbic cingulate and occipital cortex.

REFERENCES

[1]. N Dahmen, et al. Induction of C-Fos Gene Expression by the Selective Sigma Receptor Ligand EMD 57445 in Rat Brain. Eur Neuropsychopharmacol. 1996 Aug;6(3):237-43.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA