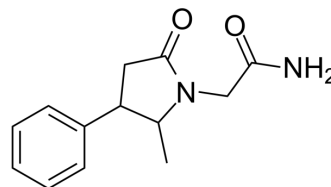


(Rac)-E1R

Cat. No.:	HY-116463D		
CAS No.:	787623-60-3		
Molecular Formula:	C ₁₃ H ₁₆ N ₂ O ₂		
Molecular Weight:	232.28		
Target:	Sigma Receptor		
Pathway:	Neuronal Signaling		
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 : 100 mg/mL (430.51 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.3051 mL	21.5257 mL	43.0515 mL
	5 mM	0.8610 mL	4.3051 mL	8.6103 mL
	10 mM	0.4305 mL	2.1526 mL	4.3051 mL

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

BIOLOGICAL ACTIVITY

Description

(Rac)-E1R (Compound 2) is the racemate of E1R. (Rac)-E1R is a sigma-1 receptor positive allosteric modulator (Sig1R PAM) used for the research of cognition/memory disorders^[1].

In Vitro

Sigma-1 receptor plays an important role in neuronal plasticity, a process implicated in the pathophysiology of neuropsychiatric diseases, such as Alzheimer's disease, major depressive disorders, and schizophrenia^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Veinberg G, et al. Synthesis and biological evaluation of 2-(5-methyl-4-phenyl-2-oxopyrrolidin-1-yl)-acetamide stereoisomers as novel positive allosteric modulators of sigma-1 receptor. *Bioorg Med Chem.* 2013 May 15;21(10):2764-71.

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

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