# (2R,3R)-E1R

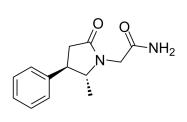
Cat. No.:	HY-1164630	2		
CAS No.:	1400888-63	-2		
Molecular Formula:	C <sub>13</sub> H <sub>16</sub> N <sub>2</sub> O <sub>2</sub>			
Molecular Weight:	232.28			
Target:	Sigma Receptor			
Pathway:	GPCR/G Protein; Neuronal Signaling			
Storage:	Powder	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	6 months	
		-20°C	1 month	

### SOLVENT & SOLUBILITY

		Mass Solvent Concentration	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 sc	lubility information to select the ap	propriate solvent.				
vo		one by one: 10% DMSO >> 40% PE( /mL (21.53 mM); Clear solution	G300 >> 5% Tween-8	0 >> 45% saline			
Solubility: ≥ 5 mg/ 3. Add each solvent o		t one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) g/mL (21.53 mM); Clear solution					
	one by one: 10% DMSO >> 90% corn oil mL (21.53 mM); Clear solution						

BIOLOGICAL ACTIVITY					
BIOLOGICALMONT					
Description	(2R,3R)-E1R (Compound 2b) is an enantiomer of E1R. (2R,3R)-E1R is a sigma-1 receptor positive allosteric modulator (Sig1R PAM) for the treatment of cognition/memory disorders <sup>[1]</sup> .				
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 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.				

# R MedChemExpress



Product Data Sheet

#### 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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