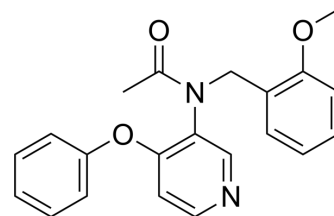


## PBR28

Cat. No.:	HY-153248		
CAS No.:	253307-65-2		
Molecular Formula:	C <sub>21</sub> H <sub>20</sub> N <sub>2</sub> O <sub>3</sub>		
Molecular Weight:	348.4		
Target:	Others		
Pathway:	Others		
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 (287.03 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.8703 mL	14.3513 mL	28.7026 mL
		5 mM	0.5741 mL	2.8703 mL	5.7405 mL
10 mM		0.2870 mL	1.4351 mL	2.8703 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: 2.5 mg/mL (7.18 mM); Clear solution; Need ultrasonic				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (7.18 mM); Clear solution; Need ultrasonic				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (7.18 mM); Clear solution; Need ultrasonic				

### BIOLOGICAL ACTIVITY

Description	PBR28 is an TSPO modulator, which can be used for prevention research of Pulmonary Arterial Hypertension (PAH). PBR28 can be used to trace 18 KDa transporter (TSPO) by adding radioactive labeling, which plays an important role in brain positron emission tomography (PET) imaging studies <sup>[1]</sup> .
IC <sub>50</sub> & Target	Translocation protein, TSPO <sup>[1]</sup>

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## REFERENCES

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[1]. Sander CY, et al. [11C]PBR28 radiotracer kinetics are not driven by alterations in cerebral blood flow. J Cereb Blood Flow Metab. 2021 Nov;41(11):3069-3084.

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

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