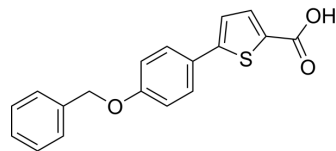


Nurr1 agonist 2

Cat. No.:	HY-W677684		
CAS No.:	742058-34-0		
Molecular Formula:	C ₁₈ H ₁₄ O ₃ S		
Molecular Weight:	310.37		
Target:	Nuclear Hormone Receptor 4A/NR4A		
Pathway:	Vitamin D Related/Nuclear Receptor		
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 : 20.83 mg/mL (67.11 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.2220 mL	16.1098 mL	32.2196 mL
	5 mM	0.6444 mL	3.2220 mL	6.4439 mL
	10 mM	0.3222 mL	1.6110 mL	3.2220 mL

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

BIOLOGICAL ACTIVITY

Description

Nurr1 agonist 2 (Compound 7) is a Nurr1 agonist (EC₅₀: 0.07 μM). Nurr1 agonist 2 binds to the recombinant Nurr1 ligand binding domain (LBD) with a K_d value of 0.14 μM. Nurr1 agonist 2 increases the Nurr1-regulated genes tyrosine hydroxylase (TH) and vesicular amino acid transporter 2 (VMAT2) mRNA expression^[1].

IC₅₀ & Target

Nurr1/NR4A2

REFERENCES

[1]. Ballarotto M, et al. De Novo Design of Nurr1 Agonists via Fragment-Augmented Generative Deep Learning in Low-Data Regime. J Med Chem. 2023 Jun 22;66(12):8170-8177.

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

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