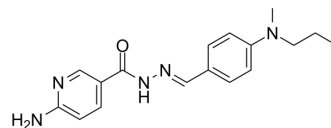


ERR γ agonist-1

Cat. No.:	HY-145848
Molecular Formula:	C ₁₇ H ₂₁ N ₅ O
Molecular Weight:	311.38
Target:	Estrogen Receptor/ERR
Pathway:	Vitamin D Related/Nuclear Receptor
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (80.29 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.2115 mL	16.0576 mL	32.1151 mL
	5 mM	0.6423 mL	3.2115 mL	6.4230 mL
	10 mM	0.3212 mL	1.6058 mL	3.2115 mL

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

BIOLOGICAL ACTIVITY

Description

ERR γ agonist-1 is a potent ERR γ agonist. ERR γ agonist-1 increases transcriptional activities of ERR γ . ERR γ agonist-1 has the potential for the research of neuropsychological disorders^[1].

IC₅₀ & Target

ERR γ

In Vitro

ERR γ agonist-1 (compound 5d) (5 μ M; 3 days) significantly increases the expression of tyrosine hydroxylase (TH) and dopamine transporter (DAT), DAergic neuronal phenotypes (dopaminergic neuronal phenotype) in neuroblastoma SH-SY5Y cells^[1].

ERR γ agonist-1 (5 μ M; 3 days) induces DAergic neuronal phenotypes via the ERR γ -mediated up-regulation of CREB-signaling pathway^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis^[1]

Cell Line: SH-SY5Y cells

Concentration: 5 μ M

Incubation Time:	3 days
Result:	Increased the DAergic neuronal-specific markers, TH and DAT in neuroblastoma SH-SY5Y cells.

REFERENCES

[1]. Kim T, et al. Discovery of new ERR γ agonists regulating dopaminergic neuronal phenotype in SH-SY5Y cells. Bioorg Chem. 2022; 122:105716.

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

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