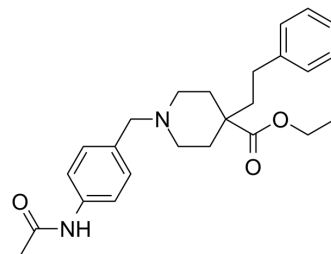


CYM51010

Cat. No.: HY-104006
CAS No.: 1069498-96-9
Molecular Formula: C₂₅H₃₂N₂O₃
Molecular Weight: 408.53
Target: Opioid Receptor
Pathway: GPCR/G Protein; Neuronal Signaling
Storage: 4°C, protect from light
 * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (305.98 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.4478 mL	12.2390 mL	24.4780 mL
	5 mM	0.4896 mL	2.4478 mL	4.8956 mL
	10 mM	0.2448 mL	1.2239 mL	2.4478 mL

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

BIOLOGICAL ACTIVITY

Description

CYM51010 is a biased ligand of μ -opioid receptor – δ -opioid receptor heterodimers with an EC₅₀ of 403 nM. CYM51010 exhibits anti-nociceptive activity similar to morphine but with a decreased levels of tolerance development and withdrawal symptoms^[1].

REFERENCES

[1]. Pinello C, et al. Characterization of an agonist probe for opioid receptor mu 1 (OPRM1)-opioid receptor delta 1 (OPRD1) heterodimerization. 2012 Dec 17 [updated 2013 Apr 5]. In: Probe Reports from the NIH Molecular Libraries Program [Internet].

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

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