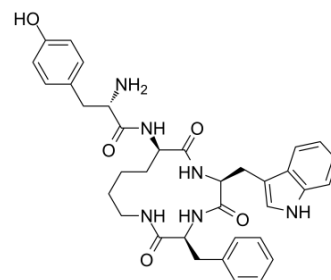


## CYT-1010

Cat. No.:	HY-123534		
CAS No.:	213769-33-6		
Molecular Formula:	C <sub>35</sub> H <sub>40</sub> N <sub>6</sub> O <sub>5</sub>		
Molecular Weight:	624.73		
Target:	Opioid 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

In Vitro	DMSO : 125 mg/mL (200.09 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		1.6007 mL	8.0035 mL	16.0069 mL
		5 mM		0.3201 mL	1.6007 mL	3.2014 mL
10 mM			0.1601 mL	0.8003 mL	1.6007 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: <b>10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline</b> Solubility: ≥ 2.08 mg/mL (3.33 mM); Clear solution					
	2. Add each solvent one by one: <b>10% DMSO &gt;&gt; 90% corn oil</b> Solubility: ≥ 2.08 mg/mL (3.33 mM); Clear solution					

### BIOLOGICAL ACTIVITY

Description	CYT-1010 is a <b>mu-opioid receptor</b> agonist extracted from patent WO2013173730A2, with EC <sub>50</sub> s of 13.1 nM and 0.0053 nM on beta-arrestin recruitment and inhibition of cAMP production, respectively <sup>[1]</sup> .
IC <sub>50</sub> & Target	EC <sub>50</sub> : 13.1 nM (beta-arrestin), 0.0053 nM (cAMP) <sup>[1]</sup>

### REFERENCES

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

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