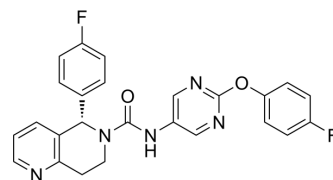


BAY-899

Cat. No.:	HY-130248		
CAS No.:	2471967-92-5		
Molecular Formula:	C ₂₅ H ₁₉ F ₂ N ₅ O ₂		
Molecular Weight:	459.45		
Target:	GnRH Receptor		
Pathway:	GPCR/G Protein		
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 : 130 mg/mL (282.95 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.1765 mL	10.8826 mL	21.7652 mL
		5 mM	0.4353 mL	2.1765 mL	4.3530 mL
10 mM		0.2177 mL	1.0883 mL	2.1765 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 3.5 mg/mL (7.62 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 3.5 mg/mL (7.62 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 3.5 mg/mL (7.62 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	BAY-899 is an orally active and selective luteinizing hormone receptor (LH-R) antagonist with IC ₅₀ s of 185 nM and 46nM for hLH (human LH) and rLH (rat LH), respectively. BAY-899 can reduce sex hormone levels ^[1] .
IC₅₀ & Target	IC ₅₀ : 185 nM (hLH) and 46nM (rLH) ^[1]
In Vivo	BAY-899 (oral; 12.5 mg/kg/day; for 8 days) shows an efficiency to reduce serum estradiol levels in intact female rats ^[1] . BAY-899 (iv of 0.5 mg/kg or po of 2 mg/kg) has a t _{1/2} of 11 hours and 12 hours for iv and po. And the C _{max} is 0.97 kg/L and 0.24

kg/L for iv and po^[1].

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

Animal Model:	Intact female rats ^[1]
Dosage:	12.5 mg/kg
Administration:	Oral; for 8 days
Result:	Showed an efficiency to reduce serum estradiol levels.

Animal Model:	Female and male Wistar rats ^[1]
Dosage:	0.5 mg/kg of iv or 2 mg/kg of po
Administration:	Iv or po
Result:	Has $t_{1/2}$ s of 11 hours and 12 hours for iv and po. And the C_{max} s are 0.97 kg/L and 0.24 kg/L for iv and po.

REFERENCES

[1]. Wortmann L, et al. Discovery of BAY-298 and BAY-899: Tetrahydro-1,6-naphthyridine-Based, Potent and Selective Antagonists of the Luteinizing Hormone Receptor Which Reduce Sex Hormone Levels In Vivo. J Med Chem. 2019 Oct 31.

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

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