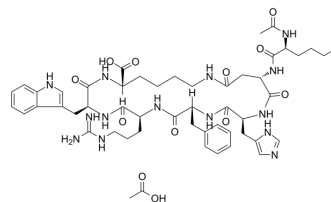


Bremelanotide Acetate

Cat. No.:	HY-18678A
CAS No.:	1607799-13-2
Molecular Formula:	C ₅₂ H ₇₂ N ₁₄ O ₁₂
Molecular Weight:	1085.22
Target:	Melanocortin Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Sealed storage, away from moisture and light, under nitrogen
	Powder -80°C 2 years
	-20°C 1 year
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

H₂O : ≥ 50 mg/mL (46.07 mM)
 DMSO : ≥ 36 mg/mL (33.17 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	0.9215 mL	4.6074 mL	9.2147 mL
	5 mM	0.1843 mL	0.9215 mL	1.8429 mL
	10 mM	0.0921 mL	0.4607 mL	0.9215 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (1.92 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (1.92 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (1.92 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Bremelanotide Acetate (PT-141 Acetate), a synthetic peptide analogue of α-MSH, is an agonist at melanocortin receptors including the MC3R and MC4R for the treatment of sexual dysfunction^[1].

In Vivo

Bremelanotide Acetate (50-200 µg/kg; s.c.; once) significantly increases proceptive solicitations in females primed with

Estradiol benzoate+Progesterone or Estradiol benzoate alone in bilevel chambers^[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Ovariectomized Long-Evans rats ^[2]
Dosage:	50, 100, 200 µg/kg
Administration:	s.c.; once
Result:	Significantly increased proceptive solicitations in females primed with Estradiol benzoate+Progesterone or Estradiol benzoate alone in bilevel chambers.

CUSTOMER VALIDATION

- Mol Pharm. 2022 Oct 21.

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REFERENCES

[1]. Molinoff PB, et al. PT-141: a melanocortin agonist for the treatment of sexual dysfunction. Ann N Y Acad Sci. 2003 Jun;994:96-102.

[2]. Pfaus JG, et al. Selective facilitation of sexual solicitation in the female rat by a melanocortin receptor agonist. Proc Natl Acad Sci U S A. 2004 Jul 6;101(27):10201-4.

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

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