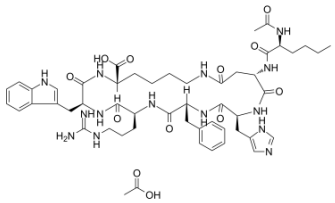
Bremelanotide Acetate

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:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 36 mg/mL (33.17 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	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

1. 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
2. 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
3. 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.

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.

India Contact:

Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444

Email: customerservice@lifetechindia.com **Website:** www.lifetechindia.com