

## Bremelanotide Acetate

## Chemical Properties

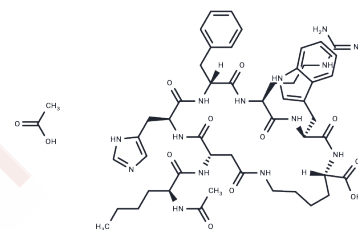
CAS No. : 1607799-13-2

Formula: C52H72N14O12

Molecular Weight: 1085.22

Storage: Keep away from moisture, Store at low temperature  
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Bremelanotide Acetate (PT-141 Acetate) is an agonist of melanocortin receptor (MCR) .
Targets(IC50)	Melanocortin Receptor
In vivo	Treatment with Bremelanotide?(100 or 200 µg/kg) significantly increased proceptive solicitations in females primed with E+Por E alone (E+O) in bilevel chambers[1]
Animal Research	Bremelanotide(PT-141), a cyclic heptapeptide melanocortin analogue (Palatin Technologies, Cranbury, NJ), was dissolved in saline to obtain doses of 50, 100, and 200 µg/kg/ml, and injected s.c. 5 min before each behavioral test. An equal volume of saline was administered to control animals[1].

## Solubility Information

Solubility	DMSO: 122.5 mg/mL (112.88 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (1.84 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
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
50 mM	0.0184 mL	0.0921 mL	0.1843 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Pfaus JG, Shadiack A, Van Soest T, et al. Selective facilitation of sexual solicitation in the female rat by a melanocortin receptor agonist[J]. Proc Natl Acad Sci U S A. 2004 Jul 6; 101(27)

Clayton AH, Althof SE, Kingsberg S, et al. Bremelanotide for female sexual dysfunctions in premenopausal women: a randomized, placebo-controlled dose-finding trial[J]. Womens Health (Lond). 2016 Jun; 12(3):325-37.

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