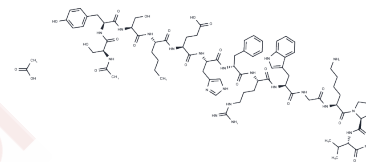


## Afamelanotide acetate

## Chemical Properties

CAS No. :	1566590-77-9
Formula:	C <sub>80</sub> H <sub>115</sub> N <sub>21</sub> O <sub>21</sub>
Molecular Weight:	1706.9
Storage:	Keep away from moisture, Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Afamelanotide acetate is a synthetic $\alpha$ -melanocyte stimulating hormone analogue and first-in-class melanocortin-1 receptor agonist, used to for Erythropoietic Protoporphyrria.
Targets(IC50)	Melanocortin Receptor

## Solubility Information

Solubility	H <sub>2</sub> O: 25 mg/mL (14.65 mM), Sonication is recommended. DMSO: 22.5 mg/mL (13.18 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.5859 mL	2.9293 mL	5.8586 mL
5 mM	0.1172 mL	0.5859 mL	1.1717 mL
10 mM	0.0586 mL	0.2929 mL	0.5859 mL
50 mM	0.0117 mL	0.0586 mL	0.1172 mL

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

- Langendonk J G , Balwani M , Anderson K E , et al. Afamelanotide for Erythropoietic Protoporphyrria[J]. New England Journal of Medicine, 2015, 373(1):48-59.
- Kim E S , Garnock-Jones K P . Afamelanotide: A Review in Erythropoietic Protoporphyrria[J]. American Journal of Clinical Dermatology, 2016, 17(2):179-185.

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