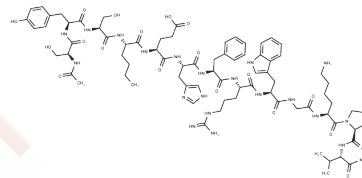


## Melanotan I

## Chemical Properties

CAS No. :	75921-69-6
Formula:	C78H111N21O19
Molecular Weight:	1646.85
Storage:	Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



## Biological Description

Description	Melanotan I is a non-specific melanocortin receptor (MCR) agonist, an $\alpha$ -melanocyte-stimulating hormone ( $\alpha$ -MSH) analog, which is injected subcutaneously to increase the amount of melanin in the skin. Melanotan I is used as an adjunct to tanning. Melanotan I has been used for the prevention of sunlight-induced skin cancers. Melanotan I has been used in the study of melanoma and for male erectile dysfunction. Melanotan I may be used to prevent sun-induced skin cancer and may be used to study melanoma and male erectile dysfunction.
Targets(IC50)	Others, Melanocortin Receptor

## Solubility Information

Solubility	DMSO: 10 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: 1 mg/mL (0.61 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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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	0.6072 mL	3.0361 mL	6.0722 mL
5 mM	0.1214 mL	0.6072 mL	1.2144 mL
10 mM	0.0607 mL	0.3036 mL	0.6072 mL
50 mM	0.0121 mL	0.0607 mL	0.1214 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

Langan EA, et al. Melanotropic peptides: more than just 'Barbie drugs' and 'sun-tan jabs'? Br J Dermatol. 2010 Sep; 163(3):451-5.

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