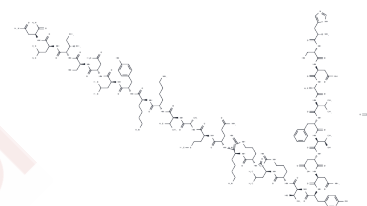


Aviptadil Acetate

Chemical Properties

CAS No. :	1444827-29-5
Formula:	C147H238N44O42S.C2H4O2
Molecular Weight:	3385.9
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	Aviptadil Acetate (Vasoactive Intestinal Peptide acetate salt) induces pulmonary vasodilation and inhibits the proliferation of vascular SMCs and platelet aggregation. Avitadil acetate can be used for research on pulmonary fibrosis, pulmonary hypertension (PAH), and respiratory failure caused by SARS-CoV-2.
Targets(IC50)	RAAS,SARS-CoV
In vitro	Aviptadil acetate inhibits the basal proliferation of pulmonary arterial smooth muscle cells (PASMC) and the mobilization of intracellular free calcium concentration in these cells in a dose-dependent manner[2].
In vivo	Inhaled vasoactive intestinal peptide(Aviptadil acetate) as a local therapy to reduce the alveolar inflammation found in patients with immune checkpoint inhibitor pneumonitis [1].

Solubility Information

Solubility	DMSO: 95 mg/mL (28.06 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: 3.3 mg/mL (0.97 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

	1mg	5mg	10mg
1 mM	0.2953 mL	1.4767 mL	2.9534 mL
5 mM	0.0591 mL	0.2953 mL	0.5907 mL
10 mM	0.0295 mL	0.1477 mL	0.2953 mL
50 mM	0.0059 mL	0.0295 mL	0.0591 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

Frye BC, Meiss F, von Bubnoff D, Zissel G, Müller-Quernheim J. Vasoactive Intestinal Peptide in Checkpoint Inhibitor-Induced Pneumonitis. *N Engl J Med.* 2020;382(26):2573-2574. doi:10.1056/NEJMc2000343
Hu J , Xu Q , Mctiernan C , et al. Novel Targets of Drug Treatment for Pulmonary Hypertension[J]. *American Journal of Cardiovascular Drugs*, 2015, 15(4):225-234.

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