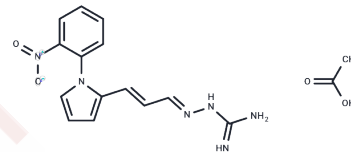


## AP1189 acetate

## Chemical Properties

CAS No. :	959850-74-9
Formula:	C <sub>16</sub> H <sub>18</sub> N <sub>6</sub> O <sub>4</sub>
Molecular Weight:	358.35
Storage:	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	AP1189 acetate is a biased agonist at melanocortin 1 and melanocortin 3 receptors.
Targets(IC50)	Melanocortin Receptor
In vitro	Added to macrophage cultures, AP1189 reduced cytokine release, an effect reliant on both MC1 and MC3 as evident from the use of Mc1r(-/-) and Mc3r(-/-) macrophages. No melanogenesis was induced by AP1189 in B16-F10 melanocytes[1].
In vivo	Oral AP1189 elicited anti-inflammatory actions in peritonitis and, upon administration at the peak of inflammation, accelerated the resolution phase by ~ 3-fold[1].

## Solubility Information

Solubility	DMSO: 50 mg/mL (139.53 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	2.7906 mL	13.9528 mL	27.9057 mL
5 mM	0.5581 mL	2.7906 mL	5.5811 mL
10 mM	0.2791 mL	1.3953 mL	2.7906 mL
50 mM	0.0558 mL	0.2791 mL	0.5581 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

Montero-Melendez T, et al. Biased agonism as a novel strategy to harness the proresolving properties of melanocortin receptors without eliciting melanogenic effects. J Immunol. 2015 Apr 1;194(7):3381-8.

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