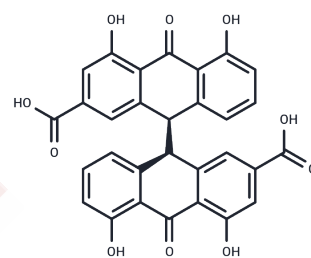


## Sennidin A

## Chemical Properties

CAS No. :	641-12-3
Formula:	C30H18O10
Molecular Weight:	538.46
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	Sennidin A, has two hydroxyanthraquinone-like moieties, exerts inhibition on NS3 helicase with IC50 values of 0.8 $\mu$ M.
Targets(IC50)	HCV Protease,Akt,PI3K,transporter
In vitro	Here, we exploited the avidity of the Sennidin A (SA) tracer and radioiodinated SA ( <sup>131</sup> I-SA) to necrotic tumors in order to further empower TNT. We showed high uptake and prolonged retention of SA in necrotic tumors and a quick clearance in other non-targeted tissues including the liver. On SPECT-CT images, tumor mass appeared persistently as a hotspot. Based on the prominent targetability of <sup>131</sup> I-SA to the tumor necrosis, we designed a combinational theragnostic modality. The vascular disrupting agent (VDA) combretastatin A4 phosphate (CA4P) was used to cause massive tumor necrosis, which formed the target of <sup>131</sup> I-SA that subsequently killed the residual tumor cells by cross-fire irradiation of beta particles. Consequently, <sup>131</sup> I-SA combined with CA4P significantly inhibited tumor growth, extended tumor doubling time and prolonged mean animal survival[1]

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8571 mL	9.2857 mL	18.5715 mL
5 mM	0.3714 mL	1.8571 mL	3.7143 mL
10 mM	0.1857 mL	0.9286 mL	1.8571 mL
50 mM	0.0371 mL	0.1857 mL	0.3714 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

Necrosis targeted combinational theragnostic approach using radioiodinated Sennidin A in rodent tumor models. Oncotarget. 2014 May 30;5(10):2934-46.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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