

## Dryocrassin ABBA

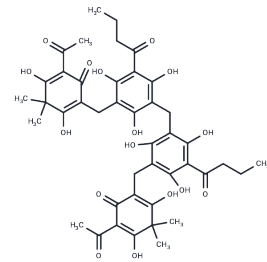
## Chemical Properties

CAS No. : 12777-70-7

Formula: C43H48O16

Molecular Weight: 820.83

Storage: Store at low temperature, Keep away from direct sunlight  
 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	Dryocrassin ABBA (Dryocrassin) is a flavonoid natural product derived from <i>Dryopteris crassirhizoma</i> , with antiviral and antibacterial activities.
Targets(IC50)	Apoptosis, Antibacterial, Influenza Virus
In vitro	Dryocrassin ABBA and its analogues (b5 and e2) showed better NAs inhibitory activity against Anhui H7N9 with IC values of 3.6 $\mu\text{M}$ , 2.5 $\mu\text{M}$ and 1.6 $\mu\text{M}$ . For the highly resistant Shanghai N9, these compounds can also show medium inhibitory activities. Docking results indicated the direct interaction of synthesized 3 hits with the key K294 by hydrogen bonds, but no direct interaction of OSV with the key K294 was observed in Shanghai N9. Dryocrassin ABBA and its analogues especially AB, which consisted of polyphenol groups may have beneficial effects on treating avian influenza H7N9 virus [2].

## 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 (1.22 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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	1mg	5mg	10mg
1 mM	1.2183 mL	6.0914 mL	12.1828 mL
5 mM	0.2437 mL	1.2183 mL	2.4366 mL
10 mM	0.1218 mL	0.6091 mL	1.2183 mL
50 mM	0.0244 mL	0.1218 mL	0.2437 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

Dryocrassin ABBA Induces Apoptosis in Human Hepatocellular Carcinoma HepG2 Cells Through a Caspase-Dependent Mitochondrial Pathway. *Asian Pac J Cancer Prev.* 2016;17(4):1823-8.

Hou B , Liu Z , Yang X B , et al. Total synthesis of dryocrassin ABBA and its analogues with potential inhibitory activity against drug-resistant neuraminidases[J]. *Bioorganic & Medicinal Chemistry*, 2019, 27(17):3846-3852.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481