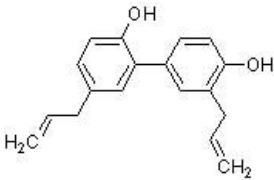


Product datasheet

Honokiol, anti-inflammatory and chemotherapeutic agent ab120647

[3 Images](#)

Overview

Product name	Honokiol, anti-inflammatory and chemotherapeutic agent
Description	Anti-inflammatory and chemotherapeutic agent
Biological description	Potent scavenger of reactive oxygen species with antiangiogenic, antitumor and anti-inflammatory properties. Mechanisms of action include inhibition of ras signalling and activation of the mitochondrial transition pore <i>via</i> cyclophilin D induction. Inhibits NF-κB signaling, upstream of VEGF. Blood-brain barrier permeable.
Purity	> 98%
CAS Number	35354-74-6
Chemical structure	

Properties

Chemical name	5,3'-Diallyl-2,4'-dihydroxybiphenyl
Molecular weight	266.34
Molecular formula	C ₁₈ H ₁₈ O ₂
Storage instructions	Store at +4°C. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble in DMSO to 100 mM and in ethanol to 100 mM
Handling	<p>Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.</p> <p>Refer to SDS for further information.</p> <p>Need more advice on solubility, usage and handling? Please visit our frequently asked</p>

[questions \(FAQ\) page](#) for more details.

Source

Synthetic

Applications

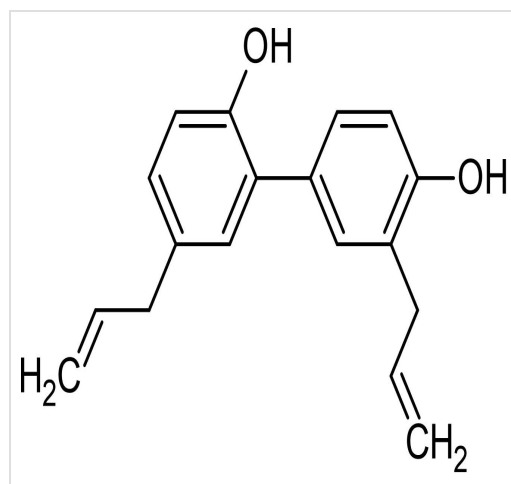
The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab120647 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

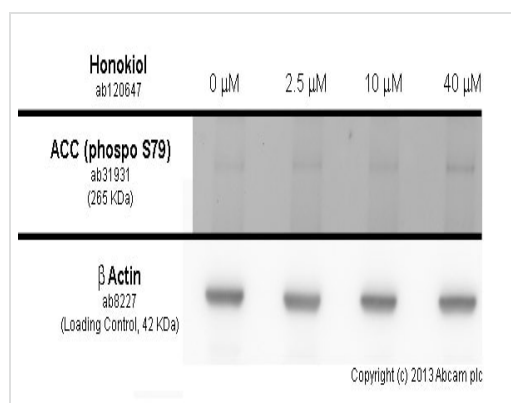
Application	Abreviews	Notes
Functional Studies		Use at an assay dependent concentration.

Images



Chemical Structure - Honokiol, anti-inflammatory and chemotherapeutic agent (ab120647)

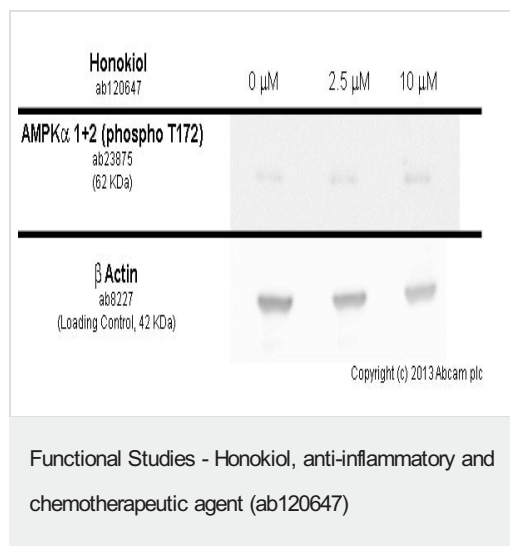
2D chemical structure image of ab120647, Honokiol, anti-inflammatory and chemotherapeutic agent



Functional Studies - Honokiol, anti-inflammatory and chemotherapeutic agent (ab120647)

MCF7 cells were incubated at 37°C for 6h with vehicle control (0 μM) and different concentrations of honokiol(ab120647). Increased expression of acetyl coenzyme A carboxylase (phospho S79) ([ab31931](#)) in MCF7 cells correlates with an increase in honokiol concentration, as described in literature.

Whole cell lysates were prepared with RIPA buffer (containing protease inhibitors and sodium orthovanadate), 10 μg of each were loaded on the gel and the WB was run under reducing conditions. After transfer the membrane was blocked for an hour using 5% BSA before being incubated with [ab31931](#) at 1 μg/ml and [ab8227](#) at 1 μg/ml overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP ([ab97051](#)) at 1/10000 dilution and visualised using ECL development solution.



MCF7 cells were incubated at 37°C for 6h with vehicle control (0 μM) and different concentrations of honokiol(ab120647). Increased expression of AMPKα 1 + AMPKα 2 (phospho T172) (**ab23875**) in MCF7 cells correlates with an increase in honokiol concentration, as described in literature.

Whole cell lysates were prepared with RIPA buffer (containing protease inhibitors and sodium orthovanadate), 10 μg of each were loaded on the gel and the WB was run under reducing conditions. After transfer the membrane was blocked for an hour using 5% BSA before being incubated with **ab23875** at 1/1000 dilution and **ab8227** at 1 μg/ml overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP (**ab97051**) at 1/10000 dilution and visualised using ECL development solution.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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