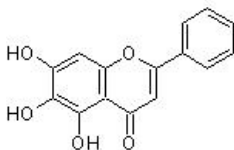


## Product datasheet

# Baicalein, Lipoxygenase inhibitor. **ab120723**

[2 Images](#)

### Overview

<b>Product name</b>	Baicalein, Lipoxygenase inhibitor.
<b>Description</b>	Flavonoid. Lipoxygenase inhibitor.
<b>Biological description</b>	Cell-permeable flavonoid. Lipoxygenase inhibitor (IC <sub>50</sub> values are 0.64 and 1.6 µM at 12- and 15-lipoxygenases, respectively). Shows antioxidant and anti-inflammatory properties. Also induces apoptosis. Additionally, inhibits α-syn oligomerisation, β-Amyloid induced neurotoxicity and amyloid protein aggregation.
<b>Purity</b>	> 98%
<b>CAS Number</b>	491-67-8
<b>Chemical structure</b>	

### Properties

<b>Chemical name</b>	5,6,7-Trihydroxy-2-phenyl-(4 <i>H</i> )-1-benzopyran-4-one
<b>Molecular weight</b>	270.24
<b>Molecular formula</b>	C <sub>15</sub> H <sub>10</sub> O <sub>5</sub>
<b>Storage instructions</b>	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
<b>Solubility overview</b>	Soluble in DMSO to 50 mM
<b>Handling</b>	<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 <a href="#">frequently asked questions (FAQ) page</a> for more details.</p>
<b>Source</b>	Synthetic

## Applications

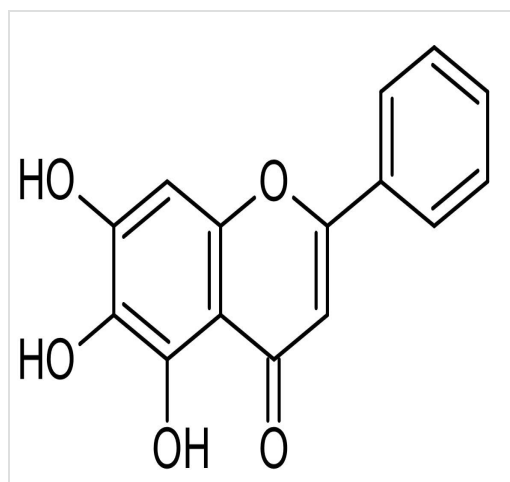
### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab120723 in the following tested applications.

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

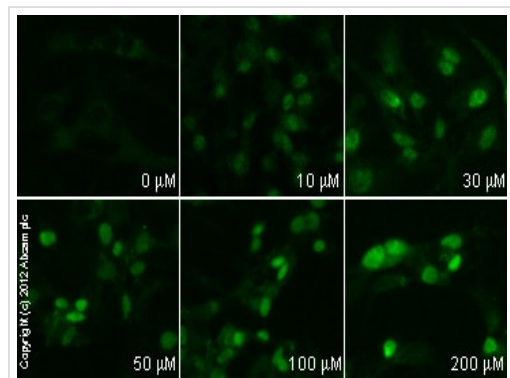
Application	Abreviews	Notes
Functional Studies		Use at an assay dependent concentration.

## Images



Chemical Structure - Baicalein, Lipoxxygenase inhibitor. (ab120723)

2D chemical structure image of ab120723, Baicalein, Lipoxxygenase inhibitor.



Immunocytochemistry/ Immunofluorescence - Baicalein, Lipoxxygenase inhibitor. (ab120723)

**ab51608** staining HIF1α in HepG2 cells treated with baicalein (ab120723), by ICC/IF. Increase in HIF1α expression correlates with increased concentration of baicalein as described in literature. The cells were incubated at 37°C for 6h in media containing different concentrations of ab120723 (baicalein) in DMSO, fixed with 4% formaldehyde for 10 minutes at room temperature and blocked with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% tween for 2h at room temperature. Staining of the treated cells with **ab51608** (5 μg/ml) was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 goat anti-rabbit polyclonal antibody (**ab96899**) at 1/250 dilution was used as the secondary antibody.

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

### **Our Abpromise to you: Quality guaranteed and expert technical support**

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- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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