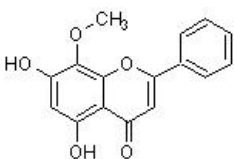


## Product datasheet

# Wogonin, COX-2 inhibitor ab142471

2 Images

### Overview

<b>Product name</b>	Wogonin, COX-2 inhibitor
<b>Description</b>	Cell permeable COX-2 inhibitor
<b>Biological description</b>	Cell permeable COX-2 inhibitor ( $IC_{50}$ = 46 $\mu$ M). Also inhibits CDK7 and CDK9 activity ( $IC_{50}$ values are 12.3 and 0.19 $\mu$ M for CDK7 and CDK9 respectively). Anti-inflammatory reagent and apoptosis inducer. Active <i>in vivo</i> .
<b>Purity</b>	> 98%
<b>CAS Number</b>	632-85-9
<b>Chemical structure</b>	

### Properties

<b>Chemical name</b>	5,7-Dihydroxy-8-methoxy-2-phenylchromen-4-one
<b>Molecular weight</b>	284.26
<b>Molecular formula</b>	C <sub>16</sub> H <sub>12</sub> O <sub>5</sub>
<b>PubChem identifier</b>	5281703
<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>Need more advice on solubility, usage and handling? Please visit our <a href="#">frequently asked questions (FAQ) page</a> for more details.</p>
<b>SMILES</b>	<chem>COC1=C(C(=C(C2=C1OC(=CC2=O)C3=CC=CC=C3)O)O</chem>
<b>Source</b>	<i>Scutellaria Baicalensis Georgi</i>

## Applications

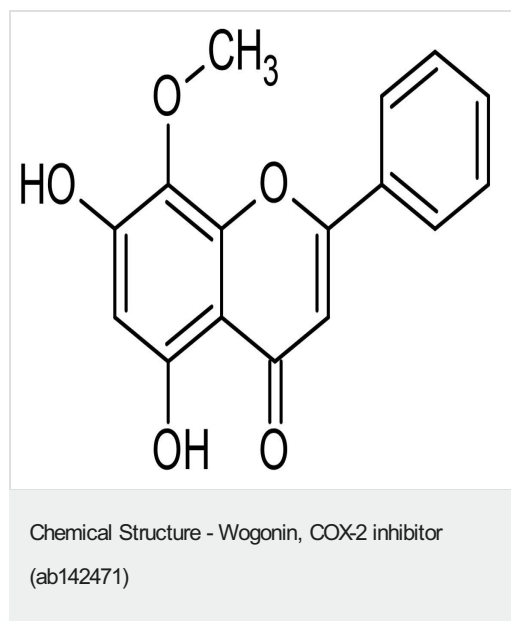
### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab142471 in the following tested applications.

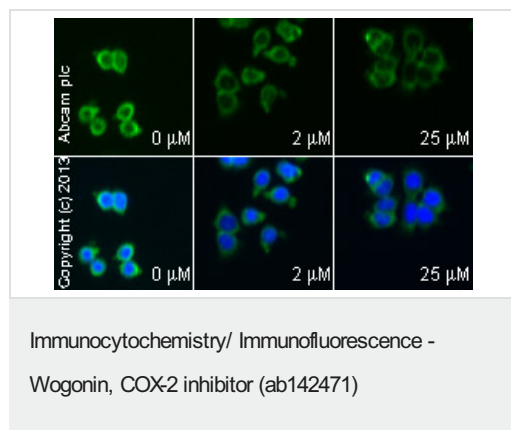
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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

## Images



2D chemical structure image of ab142471, Wogonin, COX-2 inhibitor



**ab32087** staining MCL1 in HCT116 cells treated with wogonin (ab142471), by ICC/IF. Decrease of MCL1 expression correlates with increased concentration of wogonin, as described in literature. The cells were incubated at 37°C for 2h in media containing different concentrations of ab142471 (wogonin) 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 **ab32087** (1/100) dilution was performed overnight at 4°C in PBS containing 1% BSA and 0.1% tween. A DyLight 488 anti-rabbit polyclonal antibody (**ab96899**) at 1/250 dilution was used as the secondary antibody. Nuclei were counterstained with DAPI and are shown in blue.

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

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