

## Anthraflavic acid

## Chemical Properties

CAS No. :	84-60-6
Formula:	C <sub>14</sub> H <sub>8</sub> O <sub>4</sub>
Molecular Weight:	240.211
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

## Biological Description

Description	Anthraflavic acid (2,6-Dihydroxyanthraquinone), a flavonoid, is a potent IQ mutagenicity and cytochrome P-448 inhibitor.
Targets(IC50)	Others,Cytochromes P450
In vitro	Anthraflavic acid is a potent inhibitor of IQ mutagenicity by virtue of its ability to inhibit both its microsomal and cytosolic activation pathways.
Kinase Assay	The metabolic activation of IQ to mutagens was determined using the Ames mutagenicity test and employing Salmonella typhimurium strain TA98 and 10% hepatic preparations as activation systems. IQ and anthraflavic acid were dissolved in DMSO so that the solvent levels never exceeded 100 µl per plate. In experiments where microsomes only were used as the activation system, the mix was supplemented with 1 unit/plate of glucose-6-phosphate dehydrogenase. Pre-incubation conditions are described in the appropriate legends.

## Solubility Information

Solubility	DMSO: 5.50 mg/mL (22.90 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	4.163 mL	20.8151 mL	41.6302 mL
5 mM	0.8326 mL	4.163 mL	8.326 mL
10 mM	0.4163 mL	2.0815 mL	4.163 mL
50 mM	0.0833 mL	0.4163 mL	0.8326 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

Ayrton A D , Ioannides C , Walker R . Anthraflavic acid inhibits the mutagenicity of the food mutagen IQ: Mechanism of action[J]. Mutation Research, 1988, 207(3-4):121-125.

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