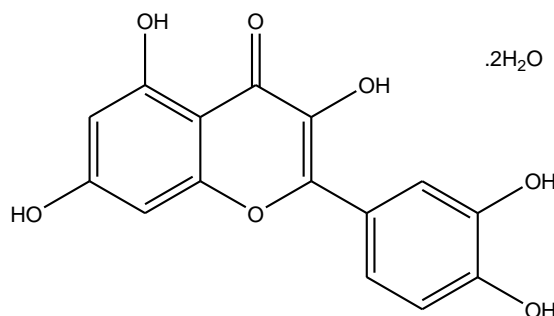


## Quercetin

Cat # NB-48-0786



### Product Information

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<b>Batch No.:</b>	0155BS/01
<b>Chemical Name:</b>	2-(3,4-Dihydroxyphenyl)-3,5,7-trihydroxy-4 <i>H</i> -1-benzopyran-4-one
<b>Batch Molecular Formula:</b>	C <sub>15</sub> H <sub>10</sub> O <sub>7</sub> .2H <sub>2</sub> O
<b>Batch Molecular Weight:</b>	338.24
<b>CAS No.:</b>	[117-39-5]
<b>Physical Appearance:</b>	Yellow solid
<b>Melting Point:</b>	300° C
<b>Storage:</b>	RT

### Solvent and solubility

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Soluble to 100 mM in DMSO

### Biological activity

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Antitumour agent. Flavonoid that inhibits heat shock proteins synthesis and induces apoptosis. Inhibits multiple enzyme systems including tyrosine protein kinase, phospholipase A<sub>2</sub>, phosphodiesterases, mitochondrial ATPase, PI 3-kinase and protein kinase C. The antiproliferative effect of quercetin in cancer cells is mediated via inhibition of the PI3K-Akt/PKB pathway. Also an activator of Ca<sup>2+</sup> and K<sup>+</sup> channels.

### References

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1. Graziani et al. (1983) J Biochem 135:583;
2. Levy et al. (1984) Biochem Biophys Res Comm 123:1227;
3. Wei et al. (1994) Cancer Res 54:4952;
4. Cermak et al. (2002) Br J Pharmacol 135:1183;
5. Saponara et al. (2002) Br J Pharmacol 135:1819;
6. Gulati et al. (2006) Anticancer Res 26:1177

- CAUTION - Not fully tested. For Research use only. Not for human use. –

NB-48-0786 Quercetin

## Analytical data

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HPLC: corresponds to the reference

MS: corresponds to the reference

Tests: HPLC Assay: > 98% (complies).

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