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## DATASHEET

### Quercetin Dihydrate

#### Product overview

|                          |                        |
|--------------------------|------------------------|
| <b>Name</b>              | Quercetin Dihydrate    |
| <b>Cat No</b>            | HB0543                 |
| <b>Biological action</b> | Inhibitor              |
| <b>Purity</b>            | >95%                   |
| <b>Description</b>       | Broad enzyme inhibitor |

#### Biological Data

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Biological description</b> | Broad enzyme inhibitor. Dihydrate form of Quercetin. Inhibits many enzymes such as tyrosine protein kinase, phosphodiesterase and phospholipase A2. Inhibits L-type voltage-gated calcium channel inward currents and increases voltage-gated K <sup>+</sup> channel currents. Shows many actions such as antioxidant, neuroprotective, antidepressant, anxiolytic, antitumor, antiasthma and vasodilator actions. |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Solubility & Handling

|                             |                                                                                                                               |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage instructions</b> | Room temperature                                                                                                              |
| <b>Solubility overview</b>  | Soluble in DMSO (68mg/ml, at 25 °C) or Acetic acid (1mg/ml)                                                                   |
| <b>Important</b>            | This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use. |

#### Chemical Data

|                           |                                                                                                                        |
|---------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>Chemical name</b>      | 2-(3,4-Dihydroxyphenyl)-3,5,7-trihydroxy-4H-1-benzopyran-4-one dihydrate;<br>3,3',4',5,7-Pentahydroxyflavone dihydrate |
| <b>Molecular Weight</b>   | 338.27                                                                                                                 |
| <b>Chemical structure</b> |                                                                                                                        |
| <b>Molecular Formula</b>  | C <sub>15</sub> H <sub>10</sub> O <sub>7</sub> ·2H <sub>2</sub> O                                                      |
| <b>CAS Number</b>         | 6151-25-3                                                                                                              |
| <b>PubChem identifier</b> | 5284452                                                                                                                |
| <b>SMILES</b>             | C1=CC(=C(C=C1C2=C(C(=O)C3=C(C=C(C=C3O2)O)O)O)O)O.O.O                                                                   |