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DATASHEET

Quercetin Dihydrate

Product overview

Name Quercetin Dihydrate

Cat No HB0543 **Biological action** Inhibitor >95% **Purity**

Description Broad enzyme inhibitor

Biological Data

Biological description 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⁺ channel currents. Shows many actions such as antioxidant, neuroprotective, antidepressant, anxiolytic, antitumor, antiasthma and vasodilator actions.

Solubility & Handling

Solubility overview Soluble in DMSO (68mg/ml, at 25 °C) or Acetic acid (1mg/ml)

Storage instructions Room temperature

Storage of solutions Prepare and use solutions on the same day if possible. Store solutions at -20°C for up to one month if

storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

Shipping Conditions Stable for ambient temperature shipping. Follow storage instructions on receipt.

Important

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use.

Chemical Data

Chemical name 2-(3,4-Dihydroxyphenyl)-3,5,7-trihydroxy-4H-1-benzopyran-4-one dihydrate;

3,3',4',5,7-Pentahydroxyflavone dihydrate

Molecular Weight

Chemical structure

Molecular Formula C₁₅H₁₀O₇.2H₂O **CAS Number** 6151-25-3 **PubChem identifier** 5284452

338.27

SMILES C1=CC(=C(C=C1C2=C(C(=O)C3=C(C=C(C=C3O2)O)O)O)O)O.O.O