

Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@hellobio.com



DATASHEET

Quercetin

Product overview

Name	Quercetin
Cat No	HB0542
Biological action	Inhibitor
Purity	>95%
Description	Enzyme inhibitor

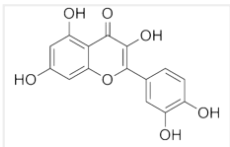
Biological Data

Biological description	Enzyme inhibitor. Inhibits tyrosine protein kinase, phosphodiesterase and phospholipase A2. Inhibits L-type voltage-gated calcium channel inward currents and increases voltage-gated K ⁺ channel currents. Shows antioxidant, neuroprotective, antidepressant, anxiolytic, antitumor, anti-asthma and vasodilator actions.
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Solubility & Handling

Solubility overview	Soluble in DMSO (100 mM)
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
Molecular Weight	302.24
Chemical structure	
Molecular Formula	C ₁₅ H ₁₀ O ₇
CAS Number	117-39-5
PubChem identifier	5280343
SMILES	<chem>C1=CC(=C(C=C1C2=C(C(=O)C3=C(C=C(C=C3O2)O)O)O)O)O</chem>
InChIKey	REFJWTPEDVJJY-UHFFFAOYSA-N
MDL number	MFCD00006828
Appearance	Yellow solid

References

Tyrosine protein kinase activity in the DMBA-induced rat mammary tumor: inhibition by quercetin.

Levy J *et al* (1984) Biochem Biophys Res Commun 123(3)

PubMedID 6091650

Enhancement of voltage-gated K⁺ channels and depression of voltage-gated Ca²⁺ channels are involved in quercetin-induced vasorelaxation in rat coronary artery.

Hou X *et al* (2014) *Planta Med* 80(6)

PubMedID 24710898

Quercetin acutely relaxes airway smooth muscle and potentiates β -agonist-induced relaxation via dual phosphodiesterase inhibition of PLC β and PDE4.

Townsend EA *et al* (2013) *Am J Physiol Lung Cell Mol Physiol* 305(5)

PubMedID 23873842

Quercetin as an inhibitor of snake venom secretory phospholipase A2.

Cotrim CA *et al* (2011) *Chem Biol Interact* 189(1-2)

PubMedID 21056032
