



Formula: C₁₅H₁₄O₉

MW: 338.27

CAS: 654055-01-3 (480160)

TNP NUMBER: TNP00526

MDL NUMBER: MFCD00149484

IUPAC: 2-(2,4-dihydroxyphenyl)-3,5,7-trihydroxychromen-4-one, hydrate, hydrate

Smiles: c1(c(c(=O)c2c(o1)cc(O)cc2O)O)c1c(cc(O)cc1)O.O.O

Morin hydrate

THERAPEUTIC CATEGORY: Antioxidant

REFERENCE: 1. Zeng, L.H., et al., Comparative protection against oxyradicals by three flavonoids on cultured endothelial cells. *Biochem. Cell Biol.* 75, 717-720, (1997) abstract 2. Wu, T.W., et al., Molecular properties and myocardial salvage effects of morin hydrate. *Biochem. Pharmacol.* 49, 537-543, (1995) abstract 3. Wu, T.W., et al., Antioxidation of human low density lipoprotein by morin hydrate. *Life Sci.* 57, PL51-PL56, (1995) abstract 4. Cheng, C.H., In vitro and in vivo inhibitory actions of morin on rat brain phosphatidylinositolphosphate kinase activity. *Life Sci.* 61, 2035-2047, (1997) abstract Reference Wu, T.W., et al., Morin hydrate inhibits azo-initiator induced oxidation of human low density lipoprotein. *Life Sci.* 58, PL17-PL22, (1996) Zeng, L.H., et al., Morin hydrate protects cultured rat glomerular mesangial cells against oxyradical damage. *Life Sci.* 55, PL351-PL357, (1994) abstract

SOURCE: In wood of old fustic (*chlorophora tinctoria* (L.) Gaud., Moraceae), also called Cuba wood, or yellow Brazil wood.

ACCEPTORS: 9

DONORS: 9

ROTATION BONDS: 6

N+O: 9

Chiral Centers: 0

LogP: -2.24

LogS: -1.93

LIPINSKI: 3

