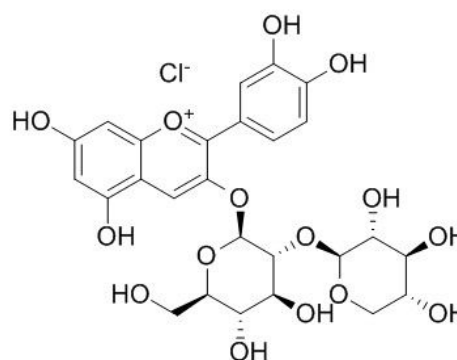


Cyanidin-3-O-sambubioside chloride Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Cyanidin-3-O-sambubioside chloride**Catalog No.:** CFN92173**Cas No.:** 33012-73-6**Purity:** > 95%**M.F:** C₂₆H₂₉ClO₁₅**M.W:** 617.0**Physical Description:** Powder**Synonyms:** Cyanidin 3-sambubioside; Sambicyanin; Sambucyanin.

[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Ingredient in supplements, beverages;
6. Cosmetic research;
7. Others.

[Source]

The fruits of *Vaccinium myrtillus*.

[Biological Activity or Inhibitors]

Delphinidin-3-O-sambubioside and cyanidin-3-O-sambubioside are the main anthocyanins of *Hibiscus sabdariffa* calyces, traditionally used to make a bright red beverage by decoction in water, at natural pH, these anthocyanins are mainly in their flavylium form (red) in equilibrium with the quinonoid base (purple) and the hemiketal (colorless).^[1]

Cyanidin-3-O-sambubioside significantly decreases the secretion of matrix metalloproteinase-9 and inhibited matrix metalloproteinase-9 expression, exerts an inhibitory effect on Akt phosphorylation, suggests that it inhibits metastasis processes, such as angiogenesis and invasion, in breast cancer cells through regulation of matrix metalloproteinase-9 activity.^[2]

Cyanidin-3-O-sambubioside chloride has antioxidant properties.^[3]

[Solvent]

Pyridine, Methanol, Ethanol, Hot water, etc.

[HPLC Method]^[4]

Mobile phase: 1% Formic acid in Acetonitrile- 1%Formic acid in H₂O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 40 °C;

The wave length of determination: 520 nm.

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[1] Vidot K, Achir N, Christian Mertz, *et al. J. Agr. Food Chem.*, 2016,.64(20):4139-45.

[2] Lee S J, Hong S, Yoo S H, *et al. Planta Med.*, 2013, 79(17):1636-40.

[3] SalazarGonzález, Vergarabalderas C, Ortegaregules F T, *et al. Cienc. Inv. Agr.*,2012,

39(1):79-90.

[4] Jr T A, Chang C, Edirisinghe I, *et al.* *J. Agr. Food Chem.*, 2012, 60(23):5803-12.

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