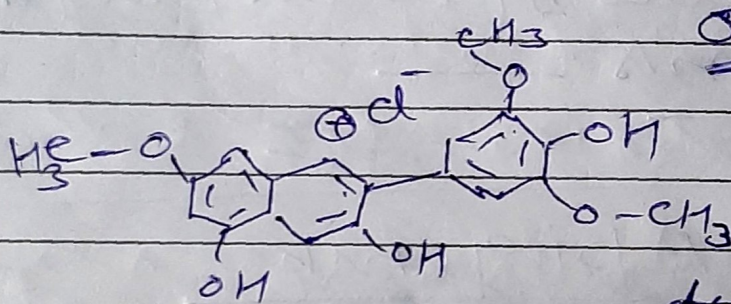
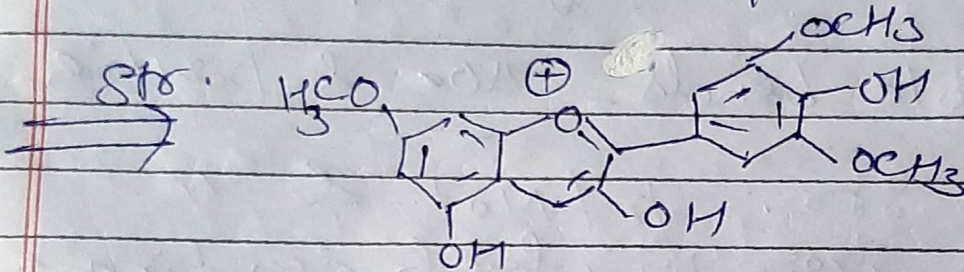


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IUPAC Name

Hirsutinidin (2-(4-hydroxy-3,5-dimethoxyphenyl)-7-methoxychromylum-3,5-diol)

It is an anthocyanidin cation consisting of benzopyrylium with hydroxy substituents at positions 3 and 5, a methoxy gp at position at 7 and 4-hydroxy, 3-5-dimethoxyphenyl gp at position 2. It has a role as a plant metabolite



derivatives

~~Str.~~

Occurrence → It is an O-methylated anthocyanidin, belonging to anthocyanins. It can be found in callus cultures, ← Catharanthus roseus.

Sto. elucidation

1. Mol. F = $C_{18}H_{17}O_7$ \oplus
2. -OH gp. position & No. of its
3. -OCH₃ gp. " "
4. ~~COO~~ -CHO gp. Nat/Not & Nature
5. double bonds - No. & position
6. ring sto. p/Not & "
7. the ion by which confirmed.
8. Synthesis = _____

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ApsigeninOccurrence

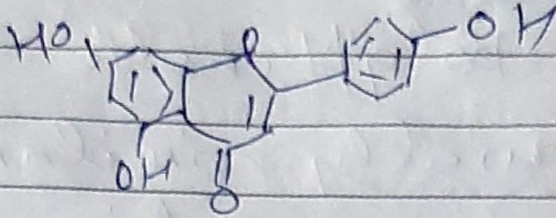
It is found in many plants, is a natural product belonging to flavone class that is aglycone of several naturally occurring glucosides.

It is yellow crystalline solid that has been used to dye wool.

Source - many fruits, vegetables but celery, parsley & chamomile tea are most

common sources. It is particularly abundant in flower of chamomile plant.

Str. of Apigenin



Other Name
EUPAFIC

4', 5, 7 - trihydroxy flavone,
Chamomile, Apigenol.

IUPAC -

5, 7 - dihydroxy - 2 - (4 - hydroxyphenyl) - 4H - 1 - benzopyran - 4 - one.

Str. elucidation - It is a flavonoid

① M.F. = $C_{15}H_{10}O_5$

② -OH gp position & No.

③ -OCH₃ pre/not present then

④ >C=O & -CHO gp p/next

⑤ = bond position & No. of

⑥ ring position & No. of

⑦ syntwnt str confirm

Glycosides of Apigenin -

e.g. Vitexin (Apigenin 8 - c glucoside)

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~~5/1/20~~ myricetin i.e flavonoid

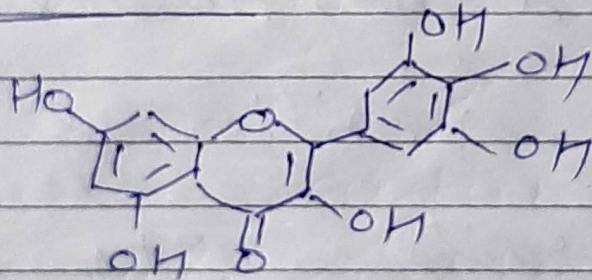
class of polyphenolic compounds
It is structurally similar to
luteolin & quercetin & many
functions same as other members
of flavonoid class of flavonoids.

occurrence &

source —

commonly dietary sources
include vegetable includes
tomatoes, fruits including orange
nuts berries, tea & red wine.

~~Structurally similar to~~
structure of myricetin



IUPAC Name → 3,5,7 - Trihydroxy - 2 -
(3,4,5 - trihydroxy phenyl) - 4
chromenone.

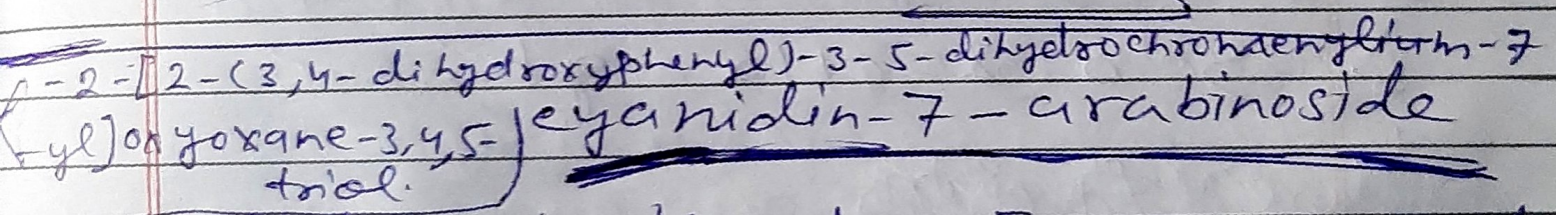
"Happiness is when what you think, what you say, and what you do are in harmony." — Mahatma Gandhi

others have - myricetin, myricetol.

str. elucidation -

- 1. M.F. $C_{15}H_{10}O_8$
- 2. -OH gp number & position and present or not
- 3. -OCH₃ gp " "
- 4. ~~CO~~ & -CHO " "
- 5. = bond " "
- 6. ring " "

7. ~~str. confirm~~ by synthesis



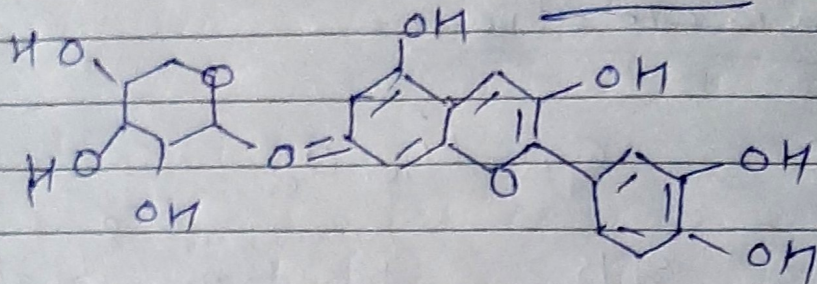
belong to the class of org. compounds known as 5-hydroxy flavonoids.

These are flavonoids that bear one-hydroxy gp at C-5 position of flavonoid skeleton. ~~Cyanidin~~

Occurrence

It has been detected, but not quantified in, malus (crab apple) and pomegranates

Str.



IUPAC Name. (2-(3,4-dihydrophenyl)-3,5-dihydroxy-7H-chromen-7-ylidene) or (3,4,5-trihydroxyoxan-2-yl)oxidenium.

Str. elucidation

1. 19.F - $C_{20}H_{19}O_{10}$
2. $-OH$ free and $-OCH_3$ gp
3. $>C=O$ & $-CHO$ gp
4. ring str
5. synthesis to confirm structure
6. through synthesis
- 7.
- 8.

These are same like ~~last~~ flavonoids so you can explain on the basis of others