



Fisetin

Presentation by
Primary Information Services
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About Fisetin

Fisetin is a flavonol, belongs to flavonoid group of polyphenols.

Berries contain more amount of fisetin as compared to other fruits and vegetables.

Among the berries strawberries contains the highest amount of the fisetin

(i.e. 160 $\mu\text{g}/\text{gm.}$ of strawberry).



Why Fisetin?

Fisetin has many medicinal properties including anti-cancerous, antiinflammatory, anti-oxidant, memory stimulator, improve detoxification capacity of the liver etc



Fisetin is a senotherapeutic that extends health and lifespan

Research Findings !

Fisetin reduced the quantity of breast cancer cells.

Fisetin decreases the ability of breast cancer cells to proliferate

Fisetin induces caspase-dependent apoptosis

Fisetin is cytotoxic to breast cancer cells

Fisetin destabilizes the mitochondria and releases cytochrome-c

Fisetin induces cell cycle arrest

Fisetin does not affect zebrafish embryo viability

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fisetin
CAS No.: 528-48-3 Formula: C₁₅H₁₀O₆ Molecular Weight: 286.236 Check Encyclopedia >
Synonyms: 4H-1-Benzopyran-4-one, 2-(3,4-dihydroxyphenyl)-3,7-dihydroxy-; 2-(3,4-Dihydroxyphenyl)-3,7-dihydroxy-4H-chrome...
Supplier: All (173) China Suppliers (123) Price Available (42) Contractor (37)

Recommended Supplier	Purity	Lead Time	Packing	Price	View
Shaanxi Lebo Biochemical Technology Co., ...	98%	7Day (s)	20mg	\$33.33	Q
fo shan xin hang sheng wu ke ji you xian go...	98%	2Day (s)	1kg	\$910	Q
Nantong FeiYu biological technology Co., LTD	98%	IN STOCK	20mg	\$33.33	Q
Shanghai Macklin Co.,Ltd	98%	IN STOCK	100mg	\$22.83	Q
PUSH-HEBCHEM.COM ALL RIGHTS RES...	98%	1Day (s)	25mg	\$33.33	Q

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Print Date: Jan 14th 2016

Certificate of Analysis

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Product Name: Fisetin

Catalog No.: 5016

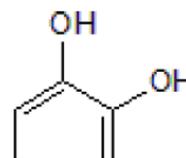
Batch No.: 1

CAS Number: 528-48-3

IUPAC Name: 2-(3,4-Dihydroxyphenyl)-3,7-dihydroxy-4*H*-1-benzopyran-4-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₀O₆
Batch Molecular Weight: 286.24
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
ethanol to 10 mM
Storage: Store at -20°C
Batch Molecular Structure:





Fisetin Extraction

The strawberries were oven dried, then were subjected to extraction with methanol as solvent system. The liquid- liquid extraction technique was used for extraction followed by HPLC for quantification. Then it was formulated in the edible form that is biscuits



Formulation and characterization of fisetin nanosuspension

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Abstract. Fisetin (3,3,4,7-tetrahydroxyflavone) is a natural antioxidant that has shown to possess anticancer, antioxidant and anti-inflammatory properties. However, the poor solubility leads to poor bioavailability and limits its development. The aim of the study is to investigate the effect of fisetin nanosuspension using a precipitation-sonication method and additional stabilizers polysorbate 80, SLS, F68, PVP, PVA and HPMC on particle size average and the polydispersity index. The suspensions of microcrystalline FIS were prepared by a precipitation method. The nanosuspension produced was then characterized by particle size distribution, polydispersity index and morphology particle (SEM). Result showed fisetin

Patents



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<input type="checkbox"/>	1	8859014	Method of converting fustin to fisetin The present invention relates to a method for converting fustin into fisetin through the gas bubbling treatment of a solution containing fustin. Rhus verniciflua Stokes extracts having high...	1000	
<input type="checkbox"/>	2	US20140031567	Method of Converting Fustin to Fisetin The present invention relates to a method for converting fustin into fisetin through the gas bubbling treatment of a solution containing fustin. Rhus verniciflua Stokes extracts having high...	979	
<input type="checkbox"/>	3	US20140107193	NUTRITIONAL COMPOSITION CONTAINING A NEUROLOGIC COMPONENT OF KAEMPFEROL AND/OR FISETIN AND USES THEREOF The present disclosure generally relates to nutritional compositions that are suitable for administration to adult and pediatric subjects that include a neurologic component. The neurologic...	669	
<input type="checkbox"/>	4	US20100010078	METHODS OF TREATING ANDROGEN DEPENDENT PROSTATE CANCER BY ADMINISTERING AN ACTIVE PHARMACEUTICAL INGREDIENT BEING FISETIN, 3,3',4',7-TETRAHYDROXYFLAVONE OR A DERIVATIVE THEREOF, IN AN ORAL, TRANSDERMAL OR TOPICAL DOSAGE FORM Administration of fisetin (3,3',4',7-tetrahydroxyflavone) to a human male to treat androgen dependent prostate cancer. Fisetin is found in fruits and vegetables, such as strawberry, apple,...	629	
<input type="checkbox"/>	5	US20140142172	Medical Food for Cognitive Decline Nutraceutical formulations that improve cognitive function in adults diagnosed with neurodegenerative disease are provided, which comprise a combination of fisetin and	438	

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QUESTIONS?

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