Apigenin
Kinase Inhibitor

Catalog # K10-900C
Lot # T2257-32
CAS # 520-36-5

Product Description

Molecular Formula: C15H10O5
Appearance: Yellow powder
Melting Point: 345-350°C
Molecular Weight: 270.2
Purity: >98% (TLC); NMR (Conforms)
Solubilization: May be dissolved in DMSO (50 mg/ml)

Alias
4',5,7-Trihydroxyflavone

Specific Activity
CK2 kinase inhibitor

Storage and Stability
Store desiccated as supplied at ambient temperature for up to 2 years. Store solutions at -20°C for up to 3 months.

Scientific Background

Selective CK2 inhibitor. Inhibits proliferation of Wnt-1 transfected cells and suppresses phosphorylation of β-catenin. Ameliorates renal dysfunction at 20 mg/Kg in a rat model of glomerulonephritis. Cell permeable and active in vivo.

References
2. DH Song et al. J. Biol. Chem. 2000 275:23790

Molecular Structure

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MATERIAL SAFETY DATA SHEET

Article 1 – Identification of the Substance and of the Company/Undertaking

Product Name: Apigenin
Catalog # K10-900C

This product is sold only for research use by qualified laboratory personnel, and is not to be used as a drug, medical device, food additive, cosmetic, nor household chemical. It is not to be used in diagnostic, therapeutic, consumer, agricultural, nor pesticidal applications.

Manufacturer’s Name: SignalChem Pharmaceuticals Inc.
Street Address: 550-5600 Parkwood Way
City, Prov. Postal Code: Richmond, BC, V6V 2M2
Fax: 604-232-4601
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Article 2 - Hazardous Identification

2.1 Classification of Substance (GHS)
Skin Category 2
Eye Category 2A
Specific target organ toxicity - single exposure (Category 3)

2.2 Label Elements
Classification according to Regulation (EC) No 1272/2008

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GHS07

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 Specific treatment (see on this label).
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
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2.3 Other hazards
Data not available

Article 3 – Composition/Information on Ingredients

3.1 Substance
Product Name(s): Apigenin, 4’,5,7-Trihydroxyflavone
Molecular Formula: C15H10O5
CAS #: 520-36-5

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Article 4 – First Aid

4.1 Description of First Aid Measures

General: Move out of dangerous area and contact a doctor. Provide them with this data sheet.
If Inhaled: Move to fresh air, and monitor breathing. Give artificial respiration if breathing stops. Consult a doctor.
In Case of Skin Contact: Remove contaminated clothing. Wash with soap and water for an extended period of time. Consult a doctor.
In Case of Eye Contact: Immediately flush eye(s) with copious amounts of water for at least 15 minutes. Consult a doctor.
If Swallowed: Rinse out the mouth with water. Do not give anything by mouth. Consult a doctor.

4.2 Important Symptoms and Effects
Lung, skin and eye irritant. Prolonged exposure is not known to aggravate prior medical conditions.

Article 5 – Fire Fighting Measures

5.1 Extinguishing Media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special Hazards
May emit toxic fumes.

5.3 Precautions for Fire Fighters
Wear suitable protection to prevent contact and respirator for fumes.

Article 6 – Accidental Release Measures

6.1 Personal Precautions
Relocate personnel to a safe area and ensure ventilation is in working order. Wear protective equipment. Avoid dust formation and inhalation of fumes.

6.2 Environmental Precautions
Do not let product enter drains.

6.3 Methods for Containment and Clean-up
Sweep up material without generating dust clouds and place in a sealed container for disposal. Clean surface where spill occurred.

Article 7 – Handling and Storage

7.1 Handling Precautions
Use in a well ventilated area. Avoid formation of dust or aerosols. Keep away from sources of ignition. Wear suitable protective clothing. Avoid inhalation, and skin or eye contact.

7.2 Safe Storage Measures
Keep product in a sealed contained located in dry well ventilated area.

Article 8 – Exposure Controls/Personal Protection

8.1 Control Parameters
Contains no substances with occupational exposure limit values.

8.2 Specific Engineering Controls
Keep airborne levels low by using a fumehood or local exhaust.

8.3 Personal Protection
Eye/Face Protection: Use safety glasses.
Skin Protection: Use chemical resistant gloves. Remove and dispose of gloves properly after use. Wash hands thoroughly after use.
Body Protection: Wear a lab coat.
Respiratory Protection: If risk is present wear a dust respirator.

Article 9 – Physical and Chemical Properties

Appearance: Yellow Powder
Odour: data not available
Odour Threshold: data not available
pH: data not available
Melting/Freezing Pt: 345-350°C
Boiling Pt: data not available

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**Article 10 – Stability and Reactivity**

10.1 Stability
Stable under recommended transport or storage conditions

10.2 Conditions to Avoid
Moist and hot conditions

10.3 Hazardous Decomposition Products
Carbon oxides (CO, CO₂). Possible toxic fumes upon combustion.

**Article 11 – Toxicological Information**

11.1 Toxicological Effects

- **Acute Toxicity:** data not available
- **Skin Corrosion/Irritation:** data not available
- **Eye Damage/Irritation:** data not available
- **Respiratory or Skin Sensitization:** data not available
- **Germ Cell Mutagenicity:** data not available
- **Carcinogenicity:** None according to NIOSH

**Article 12 – Ecological Information**

12.1 Toxicity
Data not available

12.2 Degradability
Data not available

**Article 13 – Disposal Considerations**

13.1 Waste Treatment
Product and Contaminated Packaging: Dispose according to national legislation. Contact a licensed chemical disposal company.

**Article 14 – Transport Information**

14.1 DOT
Not dangerous

14.2 IMDG
Not dangerous

14.2 IATA
Not dangerous

**Article 15 – Regulatory Information**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**Article 16 – Other Information**

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