**Product Information**

**Name:** Ginsenoside Compound K  
**Catalog No.:** CFN99756  
**Cas No.:** 39262-14-1  
**Purity:** > 98%  
**M.F:** C_{36}H_{62}O_{8}  
**M.W:** 622.88  

**Physical Description:** White powder  
**Synonyms:** 20(S)-Protopanaxadiol 20-O-D-glucopyranoside.

**Intended Use**

1. Reference standards;  
2. Pharmacological research;  
3. Food research;  
4. Cosmetic research;  
5. Synthetic precursor compounds;  
6. Care and daily chemicals;  
7. Intermediates & Fine Chemicals;  
8. Ingredient in supplements, beverages;  

**Source**
The roots of *Panax ginseng* C.A.Mey.

**[Biological Activity or Inhibitors]**

Ginsenoside compound K (C-K) is a metabolite of the protopanaxadiol-type saponins of *Panax ginseng* C.A. Meyer, has long been used to treat against the development of cancer, inflammation, allergies, and diabetes; C-K acts as a unique HUVEC migration inhibitor by regulating MMP expression, as well as the activity of SPHK1 and its related sphingolipid metabolites.\(^1\)

Ginsenoside compound K, the intestinal metabolite of ginseng saponin, has various chemopreventive and chemotherapeutic activities, including anti-tumor activity; C-K suppresses the activation of the NF-κB pathway, may become a potential cytotoxic drug in the prevention and treatment of hepatocellular carcinoma (HCC).\(^2\)

Ginsenoside compound K shows significant anti-proliferative effects and pro-apoptotic effects in HCT-116 and SW-480 cells at concentrations of 30-50 uM, suggests that C-K could be potentially effective anti-colorectal cancer agent.\(^3\)

Ginsenoside CK has anti-cancer effect on NPC cells, C-K-induced apoptosis of HK-1 cells is mediated by the mitochondrial pathway and can significantly inhibit tumor growth in vivo.\(^4\)

**[Solvent]**

Pyridine, Methanol, Ethanol, Hot water, etc.

**[HPLC Method]**\(^5\)

Mobile phase: Acetonitrile-H\(_2\)O=48:52;

Flow rate: 1.0 ml/min;

Column temperature: 35 °C;

The wave length of determination: 203 nm.

**[Storage]**
2-8°C, Protected from air and light, refrigerate or freeze.

[ References ]


[ Contact ]

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