[ **Product Information** ]

**Name:** Ginsenoside Rb1  
**Catalog No.:** CFN99964  
**Cas No.:** 41753-43-9  
**Purity:** >=98%  
**M.F:** C_{54}H_{92}O_{23}  
**M.W:** 1109.29

**Physical Description:** White powder  
**Synonyms:** 2-O-β-Glucopyranosyl-(3β,12β)-20-[(6-O-β-D-glucopyranosyl-β-D-glucopyranosyl)oxy]-12-hydroxydammar-24-en-3-yl β-D-glucopyranoside; Arasaponin E1; Gynosaponin C; Panaxoside Rb1; Sanchinoside E1; Sanchinoside Rb1.

[ **Intended Use** ]

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

[ **Source** ]
The root and rhizome of *Panax ginseng* C. A. Mey.

[**Biological Activity or Inhibitors**]

Ginsenosides, a class of ginseng compounds of herbal medicine, have therapeutic potential for the neuroprotection of brain damage after cerebral ischemia because of their anti-oxidant and anti-inflammation activities, ginsenoside Rb1 can represent promising applications as anti-oxidants for the anti-aging treatment of neurological disorders, such as stroke, in elderly patients.\[^1\]

Ginsenoside Rb1 presents cardioprotective effect against I/R or H/R injury which involves in activating Akt, phosphorylating GSK-3β and inhibiting mPTP opening.\[^2\]

Ginsenoside Rb1 has anti-oxidative effects on NPCs, may offer potential as a potent antioxidant for the treatment of neurological disorders.\[^3\]

Ginsenoside Rb1 possesses protective effects on swimming exercise-induced oxidative stress in mice.\[^4\]

Ginsenosides Rb1 and Rg1 have many molecular targets including the (CREB), which is involved in melanogenesis, they increase melanogenesis and activity in melanocytes by the activation of PKA/CREB/MITF Signaling.\[^5\]

Ginsenoside Rb1, ginsenoside Rg1, and estrogen can significantly enhance OVA-specific IgG responses, lymphocyte proliferation and cytokines mRNA expression and the enhancement could be blocked by pre-injection of an estrogen receptor antagonist ICI 182780, indicating that ginsenoside Rb1, ginsenoside Rg1, and estrogen may exhibit the adjuvant activities through estrogen receptors.\[^6\]

[**Solvent**]

Pyridine, DMSO, Ethanol, Methanol.

[**HPLC Method**]\[^7\]

Mobile phase: H2O-Acetonitrile=71:29;

Flow rate: 1.0 ml/min;
Column temperature: 30 ℃;

The wavelength of determination: 203 nm.

[ Storage ]

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

[ References ]


[ Contact ]

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