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- Expressversand

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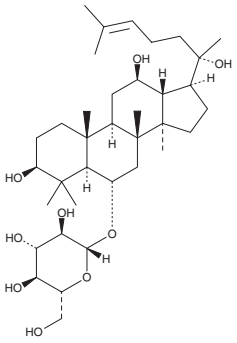
PRODUCT INFORMATION

Ginsenoside Rh_1

Item No. 27318

CAS Registry No.: 63223-86-9
Formal Name: (3β,6α,12β)-3,12,20-trihydroxydammar-24-en-6-yl, β-D-glucopyranoside
Synonyms: 20(S)-Ginsenoside Rh_1, Prosapogenin A_2, Sanchinoside Rh_1
MF: $C_{36}H_{62}O_9$
FW: 638.9
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years
Item Origin: Plant/*Panax ginseng*



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Ginsenoside Rh_1 is supplied as a solid. A stock solution may be made by dissolving the ginsenoside Rh_1 in the solvent of choice, which should be purged with an inert gas. Ginsenoside Rh_1 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of ginsenoside Rh_1 in ethanol is approximately 10 mg/ml and approximately 20 mg/ml in DMSO and DMF.

Ginsenoside Rh_1 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, ginsenoside Rh_1 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. Ginsenoside Rh_1 has a solubility of approximately 0.2 mg/ml in a 1:4 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Ginsenoside Rh_1 is a steroid glycoside and saponin that has been found in red ginseng and has diverse biological activities.[1,2] It inhibits expression of matrix metalloproteinase-1 (MMP-1), MMP-3, and MMP-9 induced by phorbol 12-myristate 13-acetate (PMA; Item No. 10008014) in U87MG and U373MG human astroglioma cells in a concentration-dependent manner.[2] Ginsenoside Rh_1 (300 µM) also inhibits PMA-induced invasion and migration of these cell lines in Matrigel™ invasion and wound healing assays, respectively. It inhibits LPS-induced increases in nitrite accumulation, prostaglandin E_2 (PGE_2; Item No. 14010) synthesis, and inducible nitric oxide synthase (iNOS) protein levels in RAW 264.7 cells and inhibits histamine release induced by compound 48/80 (Item No. 22173) in rat peritoneal mast cells (IC_{50} = 37 µM).[3] Ginsenoside Rh_1 (25 mg/kg, i.p.) inhibits IgE-induced passive cutaneous anaphylaxis reactions in mice by 87%. Ginsenoside Rh_1 is also a metabolite of ginsenoside Re (Item No. 15330) and ginsenoside Rg_1 (Item No. 15315) formed by intestinal microflora.[2,4]

References

1. Tam, D.N.H., Truong, D.H., Nguyen, T.T.H., *et al. Planta Med.* **84(3),** 139-152 (2018).
2. Jung, J.S., Ahn, J.H., Le, T.K., *et al. Neurochem. Int.* **63(2),** 80-86 (2013).
3. Park, E.K., Choo, M.K., Han, M.J., *et al. Int. Arch. Allergy. Immunol.* **133(2),** 113-120 (2004).
4. Peng, D., Wang, H., Qu, C., *et al. Chin. Med.* **7**, 2 (2012).

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