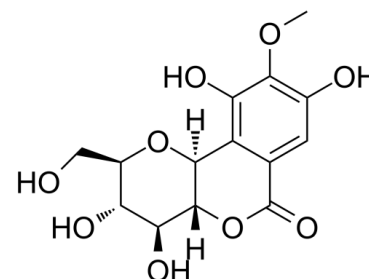


Data Sheet

Product Name:	Bergenin
Cat. No.:	CS-4946
CAS No.:	477-90-7
Molecular Formula:	C ₁₄ H ₁₆ O ₉
Molecular Weight:	328.27
Target:	Apoptosis; Autophagy; Bacterial; Fungal; Virus Protease
Pathway:	Anti-infection; Apoptosis; Autophagy
Solubility:	DMSO : 103.3 mg/mL (314.68 mM; Need ultrasonic and warming)



BIOLOGICAL ACTIVITY:

Bergenin is a cytoprotective and antioxidative polyphenol found in many medicinal plants. Bergenin has a wide spectrum activities such as hepatoprotective, antiinflammatory, immunomodulatory, antitumor, antiviral, and antifungal properties^{[1][2]}. **In Vitro:** Bergenin (7.5-30 μM; 24 hours) decreases the viability of HeLa cervical cancer cells (IC₅₀=15 μM)^[1].

Bergenin (7.5-30 μM; 24 hours) induces apoptosis in HeLa cervical cancer cells^[1]. **In Vivo:** Pretreatment with Bergenin (12.5-100 mg/kg; i.p.; once) produces a dose-related inhibition of acetic acid-induced writhing in mice^[3].

References:

- [1]. Shi X, et al. Anticancer activity of bergenin against cervical cancer cells involves apoptosis, cell cycle arrest, inhibition of cell migration and the STAT3 signalling pathway. *Exp Ther Med.* 2019 May;17(5):3525-3529.
- [2]. Yun J, et al. Bergenin decreases the morphine-induced physical dependence via antioxidative activity in mice. *Arch Pharm Res.* 2015 Jun;38(6):1248-54.
- [3]. de Oliveira CM, et al. Antinociceptive properties of bergenin. *J Nat Prod.* 2011 Oct 28;74(10):2062-8.

CAIndexNames:

Pyrano[3,2-c][2]benzopyran-6(2H)-one, 3,4,4a,10b-tetrahydro-3,4,8,10-tetrahydroxy-2-(hydroxymethyl)-9-methoxy-, (2R,3S,4S,4aR,10bS)-

SMILES:

OC1=C(OC)C(O)=C([C@@]2([H])[C@@](OC3=O)([H])[C@@H](O)[C@H](O)[C@@H](CO)O2)C3=C1

Caution: Product has not been fully validated for medical applications. For research use only.

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