

Product Data Sheet

Product Name: Harpagide

Cat. No.: GC38416

Chemical Properties

Cas. No. 6926-08-5

SMILES O[C@H]1[C@H](O)[C@@H](O)[C@]([H])(O[C@@H]2OC=C[C@]3(O)[C@@]2([H])[C@](O)(C)C[C@H]3O)O[C@@H]1CO

Formula $C_{15}H_{24}O_{10}$

M.Wt 364.35

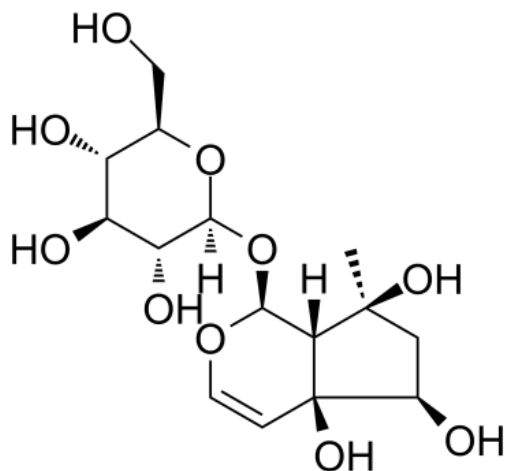
Solubility Soluble in DMSO

Storage 4°C, protect from light

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

Harpagide is a class of iridoid glycoside isolated from *Scrophularia cryptophila* and has antiparasitic activity, which exhibits good in vitro trypanocidal activities against African trypanosomes (*T.b. rhodesiense*) with an IC₅₀ of 21 µg/mL. Harpagide exerts significant antileishmanial activity against *L. donovani* with an IC₅₀ value of 2.0 µg/mL. Harpagide also possess significant anti-inflammatory

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

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activities[1][2].

Harpagide shows cytotoxic activity over 50% in a concentration of 90 µg/mL, Harpagide on the A431 and HeLa cell lines. The cytotoxic effect of Harpagide on the MCF7 cell line in a concentration of 90 µg/mL[3].

[1]. Tasdemir D, et al. Evaluation of antiprotozoal and antimycobacterial activities of the resin glycosides and the other metabolites of *Scrophularia cryptophila*. *Phytomedicine*. 2008 Mar;15(3):209-15. [2]. Zhang L, et al. Effects of β -glucosidase hydrolyzed products of harpagide and harpagoside on cyclooxygenase-2 (COX-2) in vitro. *Bioorg Med Chem*. 2011 Aug 15;19(16):4882-6. [3]. HÁznagy-Radnai E, et al. Cytotoxic activities of *Stachys* species. *Fitoterapia*. 2008 Dec;79(7-8):595-7.

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