
Product Data Sheet

Product Name: Isosilybin B

Cat. No.: GC36344

Chemical Properties

Cas. No. 142796-22-3

SMILES O=C1[C@H](O)[C@@H](C2=CC=C(O[C@@H](C3=CC=C(O)C(OC)=C3)[C@H](CO)O4)C4=C2)OC5=CC(O)=CC(O)=C15Formula C₂₅H₂₂O₁₀ M.Wt 482.44

Solubility Soluble in DMSO Storage Store at -20°C

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**

Isosilybin B, a flavonolignan isolated from silymarin, has anti-prostate cancer (PCA) activity via inhibiting proliferation and inducing G1 phase arrest and apoptosis. Isosilybin B causes androgen receptor (AR) degradation[1][2].

[1]. Deep G, et al. Isosilybin B and isosilybin A inhibit growth, induce G1 arrest and cause apoptosis in human prostatecancer LNCaP and 22Rv1 cells. Carcinogenesis. 2007 Jul;28(7):1533-42. [2]. Deep G, et al. Isosilybin B causes androgen receptor degradation in human prostate carcinoma cells via PI3K-Akt-Mdm2-mediated pathway. Oncogene. 2008 Jun 26;27(28):3986-98.

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

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