Product Data Sheet

Product Name: Neobavaisoflavone
Cat. No.: GC30085

Chemical Properties

Cas. No.	41060-15-5		
SMILES	O=C1C(C2=CC=C(O)C(C/C=C(C)\C)=C2)=COC3=CC(O)=CC=C13		
Formula	$C_{20}H_{18}O_4$	M.Wt	322.35
Solubility	DMSO : ≥ 31 mg/mL (96.17 mM)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

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

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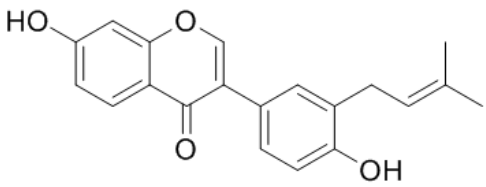
Structure



Background

Neobavaisoflavone, an isoflavone isolated from Psoralea corylifolia, has striking anti-inflammatory and anti-cancer effects. IC50 value: 42.93 μM (toward CCRF-CEM cells); 114.64 μM [against HCT116 (p53(+/+)) cells] [2]Target:In vitro: In the cancer cells, neobavaisoflavone sensitizes human U373MG glioma cells to TRAIL-mediated apoptosis; upregulated DR5 expression; induced TRAIL-mediated apoptosis in human glioma cells by suppressing migration and invasion, and by inhibiting anoikis resistance [1]. In caner cell lines, neobavaisoflavone is selectively active, and IC50 values below 115 μM were obtained on 6/9 cell lines, with values ranging from 42.93 μM (toward CCRF-CEM cells) to 114.64 μM [against HCT116 (p53(+/+)) cells] [2]. In vivo:

[1]. Kim YJ, et al. Neobavaisoflavone sensitizes apoptosis via the inhibition of metastasis in TRAIL-resistant human glioma U373MG cells. Life Sci. 2014 Jan 30;95(2):101-7. [2]. Kuete V, Activity of three cytotoxic isoflavonoids from Erythrina excelsa and Erythrina senegalensis (neobavaisoflavone, sigmoidin H and isoneorautenol) toward multi-factorial drug resistant cancer cells. Phytomedicine.

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2014 Apr 15;21(5):682-8. [3]. Ming-Jaw Don, et al. Neobavaisoflavone stimulates osteogenesis via p38-mediated up-regulation of transcription factors and osteoid genes expression in MC3T3-E1 cells. Phytomedicine Volume 19, Issue 6, 15 April 2012, Pages 551-561

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