

Bruceantin

Catalog No: tcsc3008



Available Sizes

Size: 1mg

Size: 5mg

Size: 10mg



Specifications

CAS No:

41451-75-6

Formula:

$C_{28}H_{36}O_{11}$

Pathway:

Others

Target:

Others

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

(-)-Bruceantin; NCI165563; NSC165563

Observed Molecular Weight:

548.58

Product Description

Bruceantin(NSC165563) is first isolated from *Brucea antidysenterica*, a tree used in Ethiopia for the treatment of cancer, and activity was observed against B16 melanoma, colon 38, and L1210 and P388 leukemia in mice.

IC50 value:

Target: anticancer

Cell differentiation was induced and c-MYC was down-regulated, suggesting a mechanistic correlation between c-MYC down-regulation and induction of cell differentiation or cell death. Treatment of HL-60 and RPMI 8226 cell lines induced apoptosis, and this involved the caspase and mitochondrial pathways. Moreover, an in vivo study using RPMI 8226 human-SCID xenografts demonstrated that bruceantin induced regression in early as well as advanced tumors, and these significant antitumor responses were facilitated in the absence of overt toxicity.

