

Product Data Sheet

Product Name: Irigenin
Cat. No.: GC38801

Chemical Properties

Cas. No. 548-76-5

SMILES O=C1C(C2=CC(OC)=C(OC)C(O)=C2)=COC3=CC(O)=C(OC)C(O)=C13

Formula $C_{18}H_{16}O_8$ M.Wt 360.31

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.

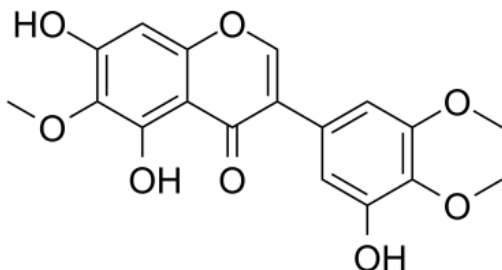
Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Structure



Background

Iridin is a lead compound, and mediates its anti-metastatic effect by specifically and selectively blocking $\alpha 9\beta 1$ and $\alpha 4\beta 1$ integrins binding sites on C-C loop of Extra Domain A (EDA). Iridin shows anti-cancer properties. It sensitizes TRAIL-induced apoptosis via enhancing pro-apoptotic molecules in gastric cancer cells[1].

Iridin specifically targets $\alpha 9\beta 1$ and $\alpha 4\beta 1$ integrin binding sites on Extra Domain A (EDA) comprising LEU46, PHE47, PRO48, GLU58, LEU59 and GLN60 in its C-C loop. Iridin binds to the C-C loop of EDA, thereby blocking its interaction with integrins on the cell surface and thus abrogating subsequent Epithelial-Mesenchymal transition[1].

[1]. Amin A, et al. Iridin, a novel lead from Western Himalayan chemiome inhibits Fibronectin-Extra Domain A induced metastasis in Lung cancer cells. Sci Rep. 2016 Nov 16;6:37151. [2]. Xu Y, et al.

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Irigenin sensitizes TRAIL-induced apoptosis via enhancing pro-apoptotic molecules in gastric cancer cells. Biochem Biophys Res Commun. 2018 Feb 12;496(3):998-1005.

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