Isodispar B

Cat. No.: HY-N10304

CAS No.: 98192-64-4

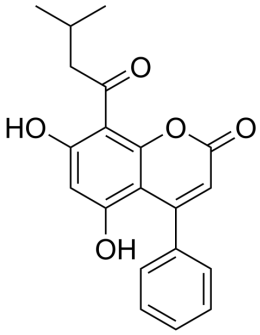
Molecular Formula: $C_{20}H_{18}O_5$

Molecular Weight: 338.35

Target: Apoptosis

Pathway: Apoptosis

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Isodispar B is an anticancer agent that inhibits the proliferation of nasopharyngeal carcinoma and breast cancer cells and induces cell apoptosis. Isodispar B is cytotoxic to a wide range of cancer cell lines[1].

In Vitro

Isodispar B (compound 1) (0-100 μM; 72 h) exerts a broad spectrum of anti-cancer activity to inhibit cell proliferation with IC_{50}s of 3.84-56.73 μM[1].

Isodispar B (1 μM and 10 μM; 3 d) induces apoptosis on nasopharyngeal cancer cells (TW01, CNE1, HK1, and SUNE1)[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Cytotoxicity Assay[1]

Cell Line:	Nasopharyngeal cancer cells (TW01, CNE1, HK1, and SUNE1) and noncancerous nasopharyngeal cells (NP460)
Concentration:	0-100 μM
Incubation Time:	72 hours
Result:	Showed cytotoxicity and inhibited cell viability with IC50s of 3.84 μM (SUNE1), 11.49 μM (TW01), 9.74 μM (CNE1), 5.58 μM (HK1), 56.73 μM (HCC38), 52.69 μM (MDA-MB-231), 52.75 μM (MDA-ME-468), and 54.85 μM (SKBR3), respectively.

REFERENCES

[1]. Lim C K, et al. In vitro cytotoxic activity of isolated compounds from Malaysian Calophyllum species[J]. Medicinal Chemistry Research, 2016, 25(8): 1686-1694.

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