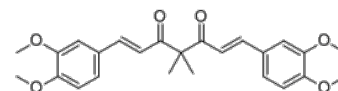


Product Name : FLLL31
Cat. No. : PC-61669
CAS No. : 52328-97-9
Molecular Formula : C₂₅H₂₈O₆
Molecular Weight : 424.49
Target : STAT
Solubility : 10 mM in DMSO



Biological Activity

FLLL31 (Tetramethylcurcumin) is a cell-permeable analog of curcumin that inhibits JAK2-mediated phosphorylation of **STAT3** on Tyr705 in cancer cells.

FLLL31 induces apoptosis in pancreatic and breast cancer cell lines.

FLLL31 also inhibit colony formation in soft agar and cell invasion and exhibits synergy with Doxorubicin against breast cancer cells.

FLLL31 decreases STAT3 DNA binding activity and expression, and induces apoptosis in several cancer cell lines; also exhibits anti-inflammatory effects on macrophage activation, lymphocyte differentiation, and pro-inflammatory factor production.

References

Lin L, et al. *Cancer Res.* 2010 Mar 15;70(6):2445-54.

Yuan S, et al. *Int Immunopharmacol.* 2014 Jul;21(1):128-36.

Holmer R, et al. *BMC Cancer.* 2015 Dec 16;15:975.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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