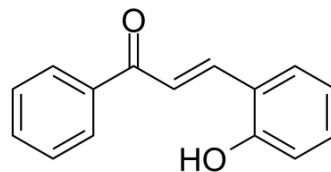


2-Hydroxychalcone

Cat. No.:	HY-119931
CAS No.:	644-78-0
Molecular Formula:	C ₁₅ H ₁₂ O ₂
Molecular Weight:	224.25
Target:	Bcl-2 Family; Apoptosis; NF-κB
Pathway:	Apoptosis; NF-κB
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	2-hydroxychalcone, a natural flavonoid, is a potent antioxidant, inhibiting lipid peroxidation. 2-Hydroxychalcone induces apoptosis by Bcl-2 downregulation. 2-Hydroxychalcone inhibits the activation of NF-κB ^{[1][2][3]} .
In Vitro	2-Hydroxychalcone inhibits invasion of triple negative breast cancer cells ^[1] . 2-hydroxychalcone inhibits the adhesion of peripheral neutrophils to the endothelial cell monolayers by inhibiting the expression of ICAM-1, VCAM-1, and E-selectin in a concentration-dependent manner ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Sun Young Kim, et al. 2-Hydroxychalcone and Xanthohumol Inhibit Invasion of Triple Negative Breast Cancer Cells. *Chem Biol Interact.* 2013 May 25;203(3):565-72.
- [2]. B Madan, et al. 2'-hydroxychalcone Inhibits Nuclear factor-kappaB and Blocks Tumor Necrosis Factor-Alpha- And Lipopolysaccharide-Induced Adhesion of Neutrophils to Human Umbilical Vein Endothelial Cells. *Mol Pharmacol.* 2000 Sep;58(3):526-34.
- [3]. BABITA MADAN, et al. 2-Hydroxychalcone Inhibits Nuclear Factor-kB and Blocks Tumor Necrosis Factor-a- and Lipopolysaccharide-Induced Adhesion of Neutrophils to Human Umbilical Vein Endothelial Cells. *Mol Pharmacol* 58:526–534, 2000.

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

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