# PRODUCT INFORMATION

## Salicylcurcumin

*Item No. 11878*

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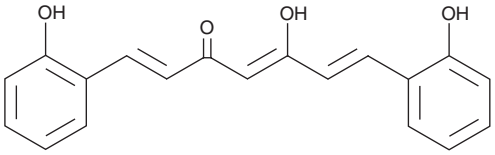
|---|---|
| **CAS Registry No.:** | 1236545-54-2 |
| **Formal Name:** | (1E,4Z,6E)-5-hydroxy-1,7-*bis*(2-hydroxyphenyl)-1,4,6-heptatrien-3-one |
| **Synonym:** | Salicylcurcuminoid |
| **MF:** | $C_{19}H_{16}O_4$ |
| **FW:** | 308.3 |
| **Purity:** | ≥95% |
| **UV/Vis.:** | $\lambda_{max}$: 288, 410 nm |
| **Supplied as:** | A crystalline solid |
| **Storage:** | -20°C |
| **Stability:** | ≥4 years |




*Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.*

### Laboratory Procedures

Salicylcurcumin is supplied as a crystalline solid. A stock solution may be made by dissolving the salicylcurcumin in the solvent of choice, which should be purged with an inert gas. Salicylcurcumin is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of salicylcurcumin in ethanol and DMSO is approximately 20 mg/ml and approximately 30 mg/ml in DMF.

### Description

Curcuminoids are natural and synthetic analogs of curcumin (Item No. 81025), a natural polyphenol with modulating effects in inflammation, cancer, and immunity.[1] Salicylcurcumin is a synthetic curcuminoid which, like bisdemethoxycurcumin (Item No. 10960), lacks methoxy groups on both phenols. Furthermore, the hydroxyl groups on each phenol are positioned ortho, as in salicylates, rather than in the para position typical of curcuminoids. Salicylcurcumin has antioxidant and anticarcinogenic properties.[2,3] Also, it increases the activity of quinone reductase in mouse hepatoma cells in a dose-dependent fashion, doubling activity at 0.3 µM salicylcurcumin.[4,5]

### References


1. Grynkiewicz, G. and Slifirski, P. Curcumin and curcuminoids in quest for medicinal status. *Acta Biochim. Pol.* **59(2)**, 201-212 (2012).
2. Manju, M., Sherin, T.G., Rajasekharan, K.N., *et al.* Curcumin analogue inhibits lipid peroxidation in a freshwater teleost, Anabas testudineus (Bloch)--an in vitro and in vivo study. *Fish Physiol. Biochem.* **35(3)**, 413-420 (2009).
3. Anto, R.J., George, J., Babu, K.V., *et al.* Antimutagenic and anticarcinogenic activity of natural and synthetic curcuminoids. *Mutat. Res.* **370(2)**, 127-131 (1996).
4. Dinkova-Kostova, A.T. and Talalay, P. Relation of structure of curcumin analogs to their potencies as inducers of Phase 2 detoxification enzymes. *Carcinogenesis* **20(5)**, 911-914 (1999).
5. Magesh, S., Chen, Y., and Hu, L. Small molecule modulators of Keap1-Nrf2-ARE pathway as potential preventive and therapeutic agents. *Med. Res. Rev.* **32(4)**, 687-726 (2012).





**CAYMAN CHEMICAL**
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
**PHONE:** [800] 364-9897
[734] 971-3335
**FAX:** [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM