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Produktinformation

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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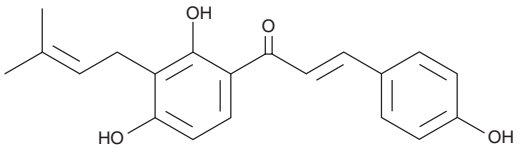
PRODUCT INFORMATION

Isobavachalcone

Item No. 19873

CAS Registry No.:	20784-50-3
Formal Name:	(2E)-1-[2,4-dihydroxy-3-(3-methyl-2-buten-1-yl)phenyl]-3-(4-hydroxyphenyl)-2-propen-1-one
Synonym:	Corylifolinin, IBC
MF:	$C_{20}H_{20}O_4$
FW:	324.4
Purity:	≥98%
UV/Vis.:	λ_{max}: 369 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years



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

Laboratory Procedures

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

IBC is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, IBC should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. IBC has a solubility of approximately 0.2 mg/ml in a 1:4 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

IBC is a chalcone and flavonoid originally isolated from *P. corylifolia* and has diverse biological activities.[1,2] It is active against *C. albicans* and *C. neoformans* (IC_{50}s = 3 and 7 µg/ml, respectively), as well as *T. rubrum* and *M. audouinii* (MIC = 1.2 µg/ml for both).[1] IBC is active against various *Bacillus*, *Streptococcus*, and *Proteus* species, as well as *K. pneumoniae*, *P. aeruginosa*, *S. typhi*, *M. morganii*, *E. aerogenes*, *C. freundii*, and *E. cloacae* (MICs = 4.9-39.1 µg/ml). It induces mitochondrial-mediated apoptosis in IMR-32 and NB-39 human neuroblastoma cells and inhibits the proliferation of OVCAR-8 ovarian, PC3 prostate, MCF-7 breast, and A549 lung cancer cell lines. IBC (50 mg/kg) reduces dopaminergic neuronal cell death and increases the stay time in the rotarod test in a mouse model of MPTP-induced Parkinson's disease.[2]

References

1. Kuete V. and Sandjo, L.P. Isobavachalcone: An overview. *Chin. J. Integr. Med.* **18(7)**, 543-547 (2012).
2. Jing, H., Wang, S., Wang, M., *et al.* Isobavachalcone attenuates MPTP-induced Parkinson's disease in mice by inhibition of microglial activation through NF-κB pathway. *PLoS One* **12(1)**, e0169560 (2017).

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