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**Product Data Sheet**

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Product Name: Dendrophenol

Cat. No.: GC34556

**Chemical Properties**

Cas. No. 108853-14-1

SMILES COC1=C(O)C=CC(CCC2=CC(OC)=C(O)C(OC)=C2)=C1Formula C<sub>17</sub>H<sub>20</sub>O<sub>5</sub> M.Wt 304.34

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Dendrophenol (Moscatilin) is from *Dendrobium nobile*, a naturally occurring bibenzyl compound with potential antimutagenic activity. Dendrophenol (Moscatilin) almost completely suppresses (97%) the AFB1-induced SOS response with an IC<sub>50</sub> of 0.08 μM.

Dendrophenol induces apoptosis of colorectal HCT-116 cells via tubulin depolymerization and DNA damage stress and that this leads to the activation of JNK and mitochondria-involved intrinsic apoptosis pathway.[2]

In Male severe combined immunodeficient mice implanted with HCT-116 cells, the i.p. treatment with dendrophenol causes a significant inhibition of tumor growth without the loss of body weight.[2]

[1] Miyazawa M, et al. J Agric Food Chem. 1999 May;47(5):2163-7. [2] Chen TH, et al. Clin Cancer Res. 2008 Jul 1;14(13):4250-8.

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

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