

ProductInformation

HISPIDIN

Product Number **H 5257** Storage Temperature –20 °C

CAS #: 555-55-5

Synonyms: 6-(3,4-Dihydroxystyryl)-4-hydroxy-2-pyrone

Product Description

Molecular Formula: C₁₃ H₁₀ O₅

Molecular Weight: 246.22 (anhydrous)

Supplied as brown solid Purity: >98% by HPLC Melting Point: 237.5-238.5 °C

Hispidin is a fungal metabolite that is a potent inhibitor of protein kinase C (PKC) βI and βII isoforms (IC₅₀ = 2 μ M). Recent studies have shown that highly-purified synthetic hispidin is cytotoxic in the range of

10⁻⁵ to 10⁻⁷ mol/L toward normal human MRC-5 fibroblasts and toward two human cancer cell lines, SCL-1 (keratinocytes) and Capan-1 (pancreatic duct cells). The cytotoxic activity is enhanced toward cancer cells compared to normal cells.

Preparation Instructions

Hispidin is soluble in DMSO at 20 mg/ml. It is insoluble in water.

Storage/Stability

Store tightly sealed under nitrogen, protect from light.

References

- Goldfine H., et al., Activation of host phospholipases C and D in macrophages after infection with *Listeria monocytogenes*. Infect. Immun., 68, 5735-5741 (2000).
- 2. Gonindard, C., et al., Synthetic hispidin, a PKC inhibitor, is more cytotoxic toward cancer cells than normal cells in vitro. Cell Biol. Toxicol., **13**, 141-153 (1997).
- 3. Ali, N.A., et al., Inhibition of chemiluminescence response of human mononuclear cells and suppression of mitogen-induced proliferation of spleen lymphocytes of mice by hispolon and hispidin. Pharmazie, **51**, 667-670 (1996).

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