Product Information

Sofalcone
Item No. 11882

CAS Registry No.: 64506-49-6
Formal Name: 2-[5-[(3-methyl-2-buten-1-yloxy)-2-[3-[4-[(3-methyl-2-buten-1-yloxy)phenyl]-1-oxo-2-propen-1-yl]phenoxy]-acetic acid
Synonyms: Solon, SU 88
MF: C_{27}H_{30}O_{6}
FW: 450.5
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis: λ_{max} 238, 348 nm

Laboratory Procedures

For long term storage, we suggest that sofalcone be stored as supplied at -20°C. It should be stable for at least two years. Sofalcone is supplied as a crystalline solid. A stock solution may be made by dissolving the sofalcone in the solvent of choice. Sofalcone is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of sofalcone in these solvents is approximately 16 and 12 mg/ml, respectively.

Sofalcone is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, sofalcone should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Sofalcone has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO/PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Sofalcone is an anti-ulcer chalcone derivative.\(^1\)\(^2\) It blocks inflammation by suppressing the production of nitric oxide, TNF-α, and MCP-1 while inducing the expression of heme oxygenase-1 when used at 10-20 μM.\(^3\) Sofalcone (20-50 μM) induces VEGF expression in gastric epithelial cells and promotes gastric ulcer healing following eradication therapy for H. pylori.\(^4\)\(^5\)\(^6\)

References


Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/11882](http://www.caymanchem.com/catalog/11882)

**WARNING:** This product is for laboratory research only; not for administration to humans. Not for human or veterinary diagnostic or therapeutic use.

**MATERIAL SAFETY DATA**

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent via email to your institution.

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Cayman Chemical Company makes no warranty or guarantee of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals herein. Cayman warrants only to the original customer that the material will meet our specifications, which extends beyond the description of the chemicals herein. Cayman’s sole liability hereunder shall be limited to a refund of the purchase price, or at Cayman’s option, the replacement, at no cost to Buyer, of all material that does not meet our specifications.

Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

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