Asterric Acid  
**Item No. 70630**

**CAS Registry No.:** 577-64-0  
**Formal Name:** 2-(2-carboxy-3-hydroxy-5-methylphenoxy)-5-hydroxy-3-methoxy-benzoic acid, 1-methyl ester  
**Synonyms:** Dimethylosoic Acid, RES-1214-1, TAN 1415A  
**MF:** C₁₇H₁₆O₈  
**FW:** 348.3  
**Purity:** ≥99%  
**Supplied as:** A solid  
**Storage:** -20°C  
**Stability:** ≥2 years  
**Item Origin:** Fungi/Aspergillus terreus

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

### Laboratory Procedures

Asterric acid is supplied as a solid. A stock solution may be made by dissolving the asterric acid in the solvent of choice. Asterric acid is soluble in organic solvents such as ethanol, DMSO, dimethyl formamide, and methanol, which should be purged with an inert gas.

### Description

Asterric acid is an antibiotic fungal metabolite that completely inhibits the binding of the potent vasoconstrictor endothelin (ET)-1 to the ETₐ receptor in A10 cells at 0.1 μM. Asterric acid derivatives have also been shown to inhibit VEGF-induced tube formation of human umbilical vein endothelial cells at 3-10 μM, which suggests its usefulness as an antiangiogenic agent.

### References