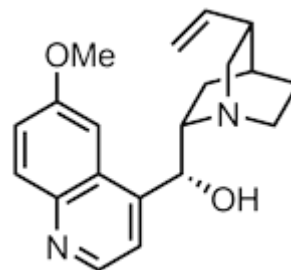




Product Name : QUININE



Product Description : Quinine is a natural

white crystalline alkaloid having antipyretic (fever-reducing), antimalarial, analgesic (painkilling), and anti-inflammatory properties and a bitter taste. It is a stereoisomer of quinidine which, unlike quinine, is an antiarrhythmic. Quinine contains two major fused-ring systems: the aromatic quinoline and the bicyclic quinuclidine. Though it has been synthesized in the lab, quinine occurs naturally in the bark of the cinchona tree. Chloroquine was developed synthetically for use against malaria and has been an effective way to treat this disease. Quinine is very sensitive to ultraviolet light (UV) and will fluoresce in direct sunlight, due to its highly conjugated resonance structure. The most widely accepted hypothesis of its action is based on the well-studied and closely related quinoline drug, chloroquine. This model involves the inhibition of hemozoin biocrystallization, which facilitates the aggregation of cytotoxic heme. Free cytotoxic heme accumulates in the parasites, causing their deaths.

Chemical Formula : (R)-(6-methoxyquinolin-4-yl)((2S,4S,8R)-8-vinylquinuclidin-2-yl)methanol

CAS No : 130-95-0

Molecular Formula : C₂₀H₂₄N₂O₂

Molecular Weight : 324.417