Paynantheine  
Item No. 21841

CAS Registry No.: 4697-66-9  
Formal Name: (αE,2S,3R,12bS)-3-ethenyl-1,2,3,4,6,7,12b-octahydro-8-methoxy-a-(methoxymethylene)-indolo[2,3-a]quinolizine-2-acetic acid, methyl ester  
Synonym: (+)-Paynantheine  
MF: C_{23}H_{28}N_{2}O_{4}  
FW: 396.5  
Purity: ≥98%  
UV/Vis.: λ_{max}^*: 226, 292 nm  
Supplied as: A crystalline solid  
Storage: -20°C  
Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly

Description

Paynantheine (Item No. 21841) is an alkaloid of the herbal drug M. speciosa (also known as kratom). Kratom (mitragynine; Item Nos. 11151 | 18567) has opioid-like and stimulant effects, and paynantheine can be detected in urine after kratom ingestion.\(^1\) Paynantheine blocks the delayed rectifier potassium current in human induced pluripotent stem cell-derived cardiomyocytes (IC\(_{50}\) = 2.47 µM), suggesting that it may have cardiotoxic effects.\(^2\) This product is intended for research and forensic applications.

References