

Product Name: Anacardic Acid

Product Number: A160

CAS Number: 16611-84-0

Molecular Formula: $C_{22}H_{36}O_3$

Molecular Weight: 345.8

Storage Conditions: -20°C

Description: Anacardic acid is a histone acetyltransferase (HAT) inhibitor that is derived from cashew shells. Anacardic acid is associated with anti-inflammatory, anti-tumor, molluscicidal, and anti-microbial activity. Anacardic acid is a common inhibitor of several clinically targeted enzymes such as NFκB kinase, histone acetyltransferase, lipoxygenase (LOX-1), xanthine oxidase, tyrosinase and ureases.

Mechanism of Action: Anacardic acid is a HAT (Histone Acetyltransferase) inhibitor.

References: Satoh, M., Takeuchi, N., Fujita, T., et al. Synthesis of anacardic acids utilizing an annelation reaction of isoxazoles with ethyl acetoacetate. Chemical & Pharmaceutical Bulletin 46(10), 1501-1505 (1998).

Balasubramanyam, K., Swaminathan, V., Ranganathan, A., et al. Small molecule modulators of histone acetyltransferase p300. The Journal of Biological Chemistry 278(21), 19134-19140 (2003).