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DATASHEET

Anacardic acid

Product overview

Name	Anacardic acid
Cat No	HB1380
Alternative names	AA
Biological action	Inhibitor
Purity	>97%
Description	Non-competitive HAT inhibitor

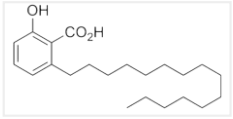
Biological Data

Biological description	Non-competitive histone acetyltransferase (HAT) inhibitor. Inhibits p300/CBP and p300-associated factor HAT actions (IC_{50} values are 5 and 8.5 µM respectively). Also inhibits NF-κB, induces ER stress and autophagy. Shows anti-cancer and anti-inflammatory actions.

Solubility & Handling

Storage instructions	-20°C
Solubility overview	Soluble in DMSO (100mM) or ethanol (50mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	2-Hydroxy-6-pentadecylbenzoic acid
Molecular Weight	348.52
Chemical structure	
Molecular Formula	$C_{22}H_{36}O_3$
CAS Number	16611-84-0
PubChem identifier	167551
SMILES	OC1=C(C(O)=O)C(CCCCCCCCCCCCCCC)=CC=C1
InChiKey	ADFWQBGTDJIESE-UHFFFAOYSA-N

References

Small molecule modulators of histone acetyltransferase p300.

Balasubramanyam K *et al* (2003) J Biol Chem 278(21)
PubMedID 12624111

Anacardic acid (6-nonadecyl salicylic acid), an inhibitor of histone acetyltransferase, suppresses expression of nuclear factor-kappaB-regulated gene products involved in cell survival, proliferation, invasion, and inflammation through inhibition of the i

Sung B *et al* (2008) Blood 111(10)
PubMedID 18349320

Induction of the endoplasmic reticulum stress and autophagy in human lung carcinoma A549 cells by anacardic acid.

Seong YA *et al* (2014) Cell Biochem Biophys 68(2)
PubMedID 23955513