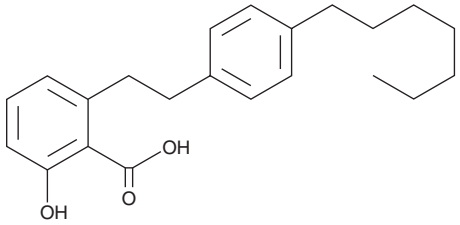
PRODUCT INFORMATION

MG149

Item No. 22135

CAS Registry No.:	1243583-85-8
Formal Name:	2-[2-(4-heptylphenyl)ethyl]-6-hydroxy-benzoic acid
MF:	$C_{22}H_{28}O_3$
FW:	340.5
Purity:	≥98%
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥4 years



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

Laboratory Procedures

MG149 is supplied as a crystalline solid. A stock solution may be made by dissolving the MG149 in the solvent of choice, which should be purged with an inert gas. MG149 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of MG149 in these solvents is approximately 30 mg/ml.

MG149 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, MG149 should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. MG149 has a solubility of approximately 0.25 mg/ml in a 1:3 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

MG149 is a histone acetyltransferase (HAT) inhibitor with IC_{50} values of 74 and 47 µM for human recombinant Tip60 and males absent on the first (MOF) HATs, respectively.[1,2] MG149 targets the acetyl-CoA binding site and inhibits acetyltransferase activity in the nuclear extract from murine hippocampus, amygdala, and prefrontal cortex.[3] MG149 also inhibits the p53 and NF-κB pathways.

References

1. Legartová, S., Stixová, L., Strnad, H., *et al.* Basic nuclear processes affected by histone acetyltransferases and histone deacetylase inhibitors. *Epigenomics* **5(4)**, 379-396 (2013).
2. Su, J., Wang, F., Cai, Y., *et al.* The functional analysis of histone acetyltransferase MOF in tumorigenesis. *Int. J. Mol. Sci.* **17(1)**, (2016).
3. Ghizzoni, M., Wu, J., Gao, T., *et al.* 6-alkylsalicylates are selective Tip60 inhibitors and target the acetyl-CoA binding site. *Eur. J. Med. Chem.* **47(1)**, 337-344 (2012).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM