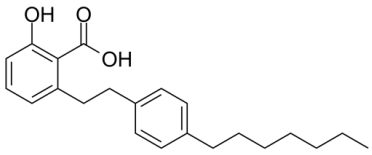
Data Sheet

Product Name:	MG 149
Cat. No.:	CS-2483
CAS No.:	1243583-85-8
Molecular Formula:	$C_{22}H_{28}O_3$
Molecular Weight:	340.46
Target:	Apoptosis; Epigenetic Reader Domain; Histone Acetyltransferase
Pathway:	Apoptosis; Epigenetics
Solubility:	DMSO : ≥ 100 mg/mL (293.72 mM); H2O : < 0.1 mg/mL (insoluble)



BIOLOGICAL ACTIVITY:

MG149 (Tip60 HAT inhibitor) is a selective and potent **Tip60** inhibitor with **IC_{50}** of 74 uM, similar potentcy for **MOF** (**IC_{50}**= 47 uM); little potent for PCAF and p300 (IC_{50} >200 uM)[1]. IC50 & Target: IC50: 74/47 μM (Tip60/MOF)[1] **In Vitro:** MG 149 (Tip60 HAT inhibitor), at 200 μM, inhibited about 90% of Tip60 activity but had no inhibitory impact on p300 and PCAF. MG 149 was essentially competitive with Ac-CoA and noncompetitive with the histone substrate. HAT inhibition studies with MG 149 demonstrated that both compounds inhibited the HAT activity of the nuclear extracts of different regions significantly ($p < 0.05$)[1].

References:

[1]. Ghizzoni M, et al. 6-alkylsalicylates are selective Tip60 inhibitors and target the acetyl-CoA binding site. Eur J Med Chem. 2012 Jan;47(1):337-44.

CAIndexNames:

Benzoic acid, 2-[2-(4-heptylphenyl)ethyl]-6-hydroxy-

SMILES:

O=C(O)C1=C(O)C=CC=C1CCC2=CC=C(CCCCCCC)C=C2

Caution: Product has not been fully validated for medical applications. For research use only.

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