

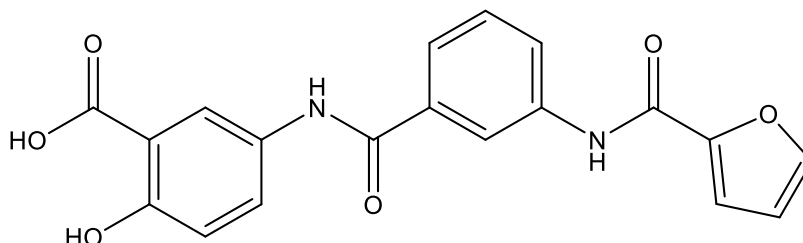
Catalog # 10-5197

OSS-128167

CAS# 887686-02-4

5-(3-(Furan-2-carboxamido)benzamido)-2-hydroxybenzoic acid

Lot # X110432



OSS-128167 is an inhibitor of SIRT6 ($IC_{50}=89 \mu M$) showing selectivity over SIRT1 and SIRT2 ($IC_{50s}=1,578$ and $751 \mu M$, respectively).¹ In diffuse large B-cell lymphoma cells which overexpress SIRT6, treatment with OSS-128167 resulted in higher rates of apoptosis, arrested cell cycle progression and augmented sensitivity to chemotherapy.² It exacerbates diabetic cardiomyopathy by aggravating inflammation and oxidative stress in a streptozotocin-induced diabetic mouse model³ and delays peripheral nerve recovery after injury by suppressing migration, phagocytosis and M2-polarization of macrophages⁴. OSS-128167 promotes cell senescence and aging in myocardial H9c2 cells.⁵

- 1) Damonte *et al.* (2017), *SIRT6 inhibitors with salicylate-like structure show immunosuppressive and chemosensitizing effects*; *Bioorg. Med. Chem.*, **25** 5849
- 2) Yang *et al.* (2020), *Sirt6 promotes tumorigenesis and drug resistance of diffuse large B-cell lymphoma by mediating PI3K/Akt signaling*; *J. Exp. Cancer Res.*, **39** 142
- 3) Huang *et al.* (2021), *SIRT6-specific inhibitor OSS-128167 exacerbates diabetic cardiomyopathy by aggravating inflammation and oxidative stress*; *Mol. Med. Rep.*, **23** 367
- 4) Zou *et al.* (2021), *SIRT6 inhibition delays peripheral nerve recovery by suppressing migration, phagocytosis and M2-polarization of macrophages*; *Cell Biosci.*, **11** 210
- 5) Zhou *et al.* (2022), *Downregulation of Sirt6 by CD38 promotes cell senescence and aging*; *Aging (Albany NY)*, **14** 9730

PHYSICAL DATA

Molecular Weight:	366.33
Molecular Formula:	C ₁₉ H ₁₄ N ₂ O ₆
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (25 mg/ml); Ethanol (25 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

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