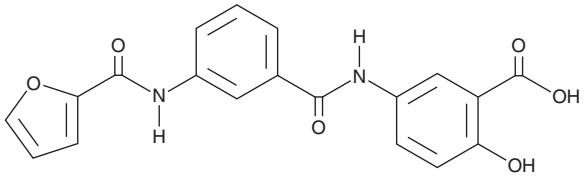
PRODUCT INFORMATION

OSS-128167

Item No. 29052

CAS Registry No.:	887686-02-4
Formal Name:	5-[[3-[(2-furanylcarbonyl)amino] benzoyl]amino]-2-hydroxy-benzoic acid
MF:	$C_{19}H_{14}N_2O_6$
FW:	366.3
Purity:	≥98%
UV/Vis.:	λ_{max}: 216, 238, 279 nm
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

OSS-128167 is supplied as a crystalline solid. A stock solution may be made by dissolving the OSS-128167 in the solvent of choice, which should be purged with an inert gas. OSS-128167 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of OSS-128167 in these solvents is approximately 30 mg/ml.

OSS-128167 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, OSS-128167 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. OSS-128167 has a solubility of approximately 0.12 mg/ml in a 1:7 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

OSS-128167 is an inhibitor of sirtuin 6 (SIRT6; IC_{50} = 89 µM).[1] It is selective for SIRT6 over SIRT1 and SIRT2 (IC_{50}s = 1,578 and 751 µM, respectively). OSS-128167 increases acetylation of histone H3 lysine 9 (H3K9) and glucose uptake and decreases TNF-α release in BxPC-3 cells. *In vivo*, OSS-128167 (100 µg/animal, i.c.v.) prevents decreases in left hemisphere cerebral levels of IL-1β, TNF-α, and IL-6 and neutrophil infiltration induced by bexarotene (Item No. 11571) in a rat model of subarachnoid hemorrhage.[2]

References

1. Damonte, P., Sociali, G., Parenti, M.D., *et al.* SIRT6 inhibitors with salicylate-like structure show immunosuppressive and chemosensitizing effects. *Bioorg. Med. Chem.* **25(20),** 5849-5858 (2017).
2. Zuo, Y., Huang, L., Enkhjargal, B., *et al.* Activation of retinoid X receptor by bexarotene attenuates neuroinflammation via PPARγ/SIRT6/FoxO3a pathway after subarachnoid hemorrhage in rats. *J. Neuroinflammation* **16(1):47,** (2019).

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