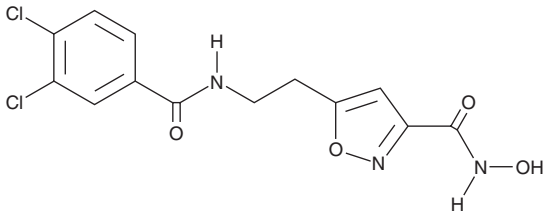
PRODUCT INFORMATION

SS-208

Item No. 29128

CAS Registry No.:	2245942-72-5
Formal Name:	5-[2-[(3,4-dichlorobenzoyl) amino]ethyl]-N-hydroxy-3-isoxazolecarboxamide
MF:	$C_{13}H_{11}Cl_2N_3O_4$
FW:	344.2
Purity:	≥98%
UV/Vis.:	λ_{max}: 237 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years



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

Laboratory Procedures

SS-208 is supplied as a crystalline solid. A stock solution may be made by dissolving the SS-208 in the solvent of choice, which should be purged with an inert gas. SS-208 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of SS-208 in ethanol is approximately 30 mg/ml and approximately 1 mg/ml in DMSO and DMF.

SS-208 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, SS-208 should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. SS-208 has a solubility of approximately 0.3 mg/ml in a 1:2 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

SS-208 is an inhibitor of histone deacetylase 6 (HDAC6; IC_{50} = 12 nM).[1] It is selective for HDAC6 over HDAC1, -4, -5, -7, -8, -9, and -11 (IC_{50}s = 1.39, 19.5, 6.91, 8.34, 1.23, 38.2, and 5.12 µM, respectively). SS-208 (0.1-25 µM) inhibits HDAC6 in, but does not induce cell death of, human PC3 prostate, 5637 and T24 bladder, and murine SM1 melanoma cells *in vitro*. It decreases protein levels of programmed death ligand 1 (PD-L1) in SM1 cells when used at a concentration of 5 µM. SS-208 (25 mg/kg, i.p.) reduces tumor growth and increases the number of intratumoral $CD8^+$, $CD4^+$, and natural killer (NK) T cells in an SM1 murine melanoma model.

Reference

1. Shen, S., Hadley, M., Ustinova, K., *et al.* Discovery of a new isoxazole-3-hydroxamate-based histone deacetylase 6 inhibitor SS-208 with antitumor activity in syngeneic melanoma mouse models. *J. Med. Chem.* **62(18)**, 8557-8577 (2019).

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