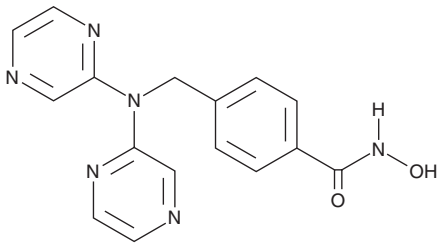
PRODUCT INFORMATION

KA2507

Item No. 46343

CAS Registry No.:	1636894-46-6
Formal Name:	4-[(di-2-pyrazinylamino)methyl]-N-hydroxy-benzamide
MF:	$C_{16}H_{14}N_6O_2$
FW:	322.3
Purity:	≥98%
Supplied as:	A 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

KA2507 is supplied as a solid. A stock solution may be made by dissolving the KA2507 in the solvent of choice, which should be purged with an inert gas. KA2507 is slightly soluble (0.1-1 mg/ml) in DMSO.

Description

KA2507 is a histone deacetylase 6 (HDAC6; IC_{50} = 2.5 nM) inhibitor.[1] It is selective for HDAC6 over HDAC8 (IC_{50} = 621 nM) and HDAC1-5, -7, and -9-11 (IC_{50}s = >1,000 nM for all) and sirtuin 1 (SIRT1), -2, -3, and -5 (IC_{50}s = >10,000 nM for all). KA2507 inhibits the deacetylation of acetylated α-tubulin (EC_{50} = 150 nM) but not acetylated histone H3 (EC_{50} = >10,000 nM) in A549 lung adenocarcinoma cells. It increases intratumoral MHC class I expression and reduces intratumoral programmed cell death 1 ligand 1 (PD-L1) levels and tumor volume in B16/F10 murine melanoma, CT26 murine colon carcinoma, and MC-38 murine colon carcinoma models.

Reference

1. Tsimberidou, A.M., Beer, P.A., Cartwright, C.A., *et al.* Preclinical development and first-in-human study of KA2507, a selective and potent inhibitor of histone deacetylase 6, for patients with refractory solid tumors. *Clin. Cancer Res.* **27(13),** 3584-3594 (2021).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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