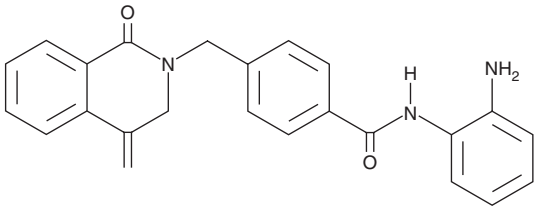
PRODUCT INFORMATION

MI-192

Item No. 18288

CAS Registry No.:	1415340-63-4
Formal Name:	N-(2-aminophenyl)-4-[(3,4-dihydro-4-methylene-1-oxo-2(1H)-isoquinolinyl)methyl]-benzamide
MF:	$C_{24}H_{21}N_3O_2$
FW:	383.4
Purity:	≥98%
Supplied as:	A crystalline solid
UV/Vis.:	λ_{max}: 203, 234 nm
Storage:	-20°C
Stability:	≥4 years



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

Laboratory Procedures

MI-192 is supplied as a crystalline solid. A stock solution may be made by dissolving the MI-192 in the solvent of choice. MI-192 is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of MI-192 in these solvents is approximately 5 and 1 mg/ml, respectively.

MI-192 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, MI-192 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. MI-192 has a solubility of approximately 0.1 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

MI-192 is an inhibitor of histone deacetylases (HDACs) that preferentially inhibits HDAC2 (IC_{50} = 30 nM) and HDAC3 (IC_{50} = 16 nM) over HDAC1, 4, 6, 7, and 8 (IC_{50}s = 4.8, 5, >10, 4.1, and >10 µM, respectively).[1] At 0.1-0.4 µM, it induces differentiation and promotes apoptosis of acute myeloid leukemic cell lines U937, HL60, and Kasumi-1.[1]

Reference

1. Boissinot, M., Inman, M., Hempshall, A., *et al*. Induction of differentiation and apoptosis in leukaemic cell lines by the novel benzamide family histone deacetylase 2 and 3 inhibitor MI-192. *Leuk. Res.* **36**, 1304-1310 (2012).

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