

Catalog # 10-2712

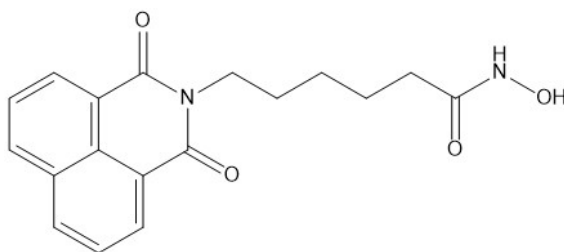
Scriptaid

CAS# 287383-59-9

Scriptide; GCK1026

6-(1,3-Dioxo-1*H*,3*H*-benzo[de]isoquinolin-2-yl)-N-hydroxyhexanamide

Lot # S105170



Inhibits histone deacetylases (HDAC) 1 and 3 ($IC_{50} \sim 0.6 \mu M$) and HDAC8 ($IC_{50} \sim 1 \mu M$) and is less toxic compared to trichostatin A.^{1,2} Induces cell cycle arrest and epigenetic changes in colon cancer cells.³ Together with DRB-inhibition of RNA synthesis, scriptaid enhances gene reprogramming in somatic cell nuclear transfer (SCNT) embryos.⁴ Increases exercise endurance in mice.⁵

- 1) Su *et al.* (2000), *A novel histone deacetylase inhibitor identified by high-throughput transcriptional screening of a compound library*; *Cancer Res.*, **60** 3137
- 2) Huber *et al.* (2011), *Inhibitors of histone deacetylases: correlation between isoform specificity and reactivation of HIV type 1 (HIV-1) from latently infected cells*; *J. Biol. Chem.*, **286** 22211
- 3) Lee *et al.* (2008), *Histone deacetylase inhibitor scriptaid induces cell cycle arrest and epigenetic change in colon cancer cells*; *J. Oncol.*, **33** 767
- 4) Rissi *et al.* (2019), *Inhibition of RNA synthesis during Scriptaid exposure enhances gene reprogramming in SCNT embryos*; *Reproduction*, **157** 123
- 5) Huang *et al.* (2020), *Scriptaid/exercise-induced lysine acetylation is another type of posttranslational modification occurring in titin*; *J. Appl. Physiol.*, **128** 276

PHYSICAL DATA

Molecular Weight:	326.35
Molecular Formula:	C ₁₈ H ₁₈ N ₂ O ₄
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 4 mg/ml)
Physical Description:	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 may be stored at -20°C for up to 2 months.

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