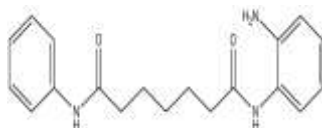


**PRODUCT: NKL 22 (MDK-4154)****ALTERNATE NAME:** N1-(2-aminophenyl)-N7-phenylheptanediamide**CATALOG #:** B1133-10, 50**AMOUNT:** 10 mg, 50 mg**STRUCTURE:****MOLECULAR FORMULA:** C<sub>19</sub>H<sub>23</sub>N<sub>3</sub>O<sub>2</sub>**MOLECULAR WEIGHT:** 325.40**CAS NUMBER:** 537034-15-4**APPEARANCE:** Beige to pale white solid**SOLUBILITY:** DMSO (100 mg/ml)**PURITY:** ≥98% by HPLC**STORAGE:** Store at -20°C. Protect from air and light.

**DESCRIPTION:** NKL 22 (also known as MDK-4154) is a cell-permeable compound that acts as a *FXN*- (frataxin gene) specific HDAC (histone deacetylase) inhibitor. It reverses the silencing of *FXN* transcription in FRDA (Friedreich's ataxia) cells due to hypoacetylation of histones H3 and H4 by increasing acetylation at H3K14, H4K12, and H4K5 without much acetylation on H3K9, H4K8 and H4K16.

**REFERENCES:** Herman, D et al. (2006). *Nat. Chem. Biol.* **2**, 551-558.**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.**RELATED PRODUCTS:**

ACY-1215 (Cat. No. 2629-5, 25)

AR-42 (Cat. No. 2716-1,5)

CBHA (Cat. No. 2284-5, 10)

CAY10683 (Cat. No. B1051-5,25)

Chidamide (Cat. No. 2261-1, 5)

CI-994 (Cat. No. 1742-10, 50)

CUDC-101 (Cat. No. 1966-5, 25)

Depudecin (Cat. No. 2087-100)

DiscoveryPak™ HDAC Inhibitor Set (Cat. No. K851-6)

DiscoveryPak™ HDAC Inhibitor Set II (Cat. No. K876-7)

Droxinostat (Cat. No. 9570-5,25)

HC Toxin (Cat. No. 2728-500, 1000)

ITF2357 (Cat. No. 9431-1,5)

JNJ-26481585 (Cat. No. 9612-5, 25)

FK228 (Cat. No. 2447-1, 5)

LAQ824 (Cat. No. 2634-1,5)

M344 (Cat. No. 1701-1)

MGCD0103 (Cat. No. 2633-10, 50)

MS-275 (Entinostat, MS-275) (Cat. No. 1590-1,5)

Nexturastat A (Cat. No. 2098-1)

Nullscript (Cat. No. 2186-1)

Oxamflatin (Cat. No. 2250-1, 5)

Panobinostat (LBH589) (Cat. No. 1612-1,5)

PCI 34051 (Cat. No. 2251-5, 25)

PXD101 (Cat. No. 2480-5, 25)

SAHA (Cat. No. 1604-1)

SB 939 (Cat. No. 2285-1, 5)

SBHA (Cat. No. 2202-50, 250)

Sodium 4-phenylbutyrate (Cat. No. 1608-100,1000)

Sodium Butyrate (Cat. No. 1609-1000)

Splitomycin (Cat. No. 1610-5)

Trichostatin A (Cat. No. 1606-1)

Tubacin (Cat. No. 1984-250, 1000)

Tubastatin A (Cat. No. 1724-1, 5)

**USAGE:** FOR RESEARCH CH USE ONLY! Not to be used in humans