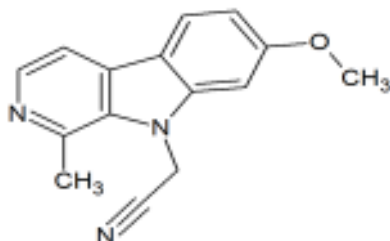


# DIRK1A/1B inhibitor AnnH31

**ALTERNATE NAME:** AnnH31  
2-(7-Methoxy-1-methyl-9H-pyrido[3,4-b]indol-9-yl)acetonitrile

**CATALOG #:** B3287-100 100 µg  
B3287-500 500 µg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>15</sub>H<sub>13</sub>N<sub>3</sub>O

**MOLECULAR WEIGHT:** 251.3

**CAS NUMBER:** 241809-12-1

**APPEARANCE:** Off-white solid

**PURITY:** ≥98% by HPLC

**SOLUBILITY:** DMSO

**DESCRIPTION:** DIRK1A/1B inhibitor AnnH31 is a potent selective cell-permeable DYRK1A (IC<sub>50</sub> =81 nM) and DYRK1B inhibitor. Off-target inhibition of CLK1 and slightly DYRK2 and HIPK2. Displays minimal inhibitory effects on monoamine oxidase A (MAO A) (IC<sub>50</sub>=3.20 µg), with 40-fold selectivity for DYRK1A over MAO A. Dose-dependently reduces the phosphorylation of three known DYRK1A substrates (SF3B1, SEPT4 and tau) without negative effects on cell viability in cellular assays.

**STORAGE TEMPERATURE:** -20°C. Protect from light

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**RELATED PRODUCTS:**

Harmine (2561)  
7BIO (9690)  
Leucettine L41 (2617)  
GSK-626616 (B2452)

**DISCLAIMER:** *FOR RESEARCH USE ONLY! Not to be used on humans.*