

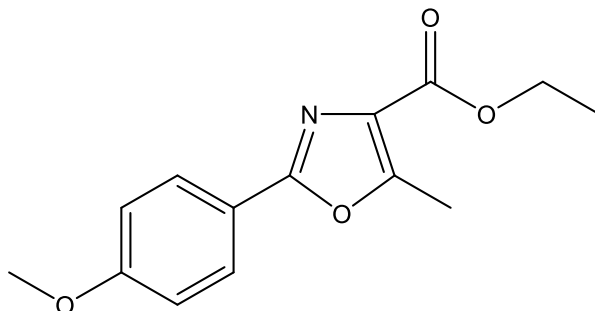
Catalog # 10-3923

CIB-3b

CAS# 124811-87-6

Ethyl 2-(4-methoxyphenyl)-5-methyl-1,3-oxazole-4-carboxylate

Lot # FBA8232



CIB-3b inhibits microRNA (miRNA) biogenesis *via* binding ($K_D = 10.42$ nM) to transactivation response (TAR) RNA-binding protein 2 (TRBP), disrupting the TRBP-Dicer interaction, a critical element in pre-miRNA processing. It inhibited mi-R21 ($EC_{50} = 1.38$ μ M) expression, a potent inducer of cellular EMT progression. CIB-3b inhibited hepatocarcinogenesis by blocking EMT in a mouse orthotopic transplantation model (SK-HEP-1 cells).

- 1) Peng, *et al.* (2022), *Discovery of a Novel Small-Molecule Inhibitor Disrupting TRBP-Dicer Interaction against Hepatocellular Carcinoma via the Modulation of microRNA Biogenesis*; *J. Med. Chem.*, **65** 11010

PHYSICAL DATA

Molecular Weight: 261.28

Molecular Formula: $C_{14}H_{15}NO_4$

Purity: >98% by HPLC

NMR: Conforms

Solubility: DMSO (25 mg/ml); Ethanol (30 mg/ml)

Physical Appearance: White solid

Storage and Stability: Store as supplied desiccated at $-20^{\circ}C$ for up to 2 years from the date of purchase.
Solutions in DMSO may be stored at $-20^{\circ}C$ for up to 3 months.

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