

Catalog #10-4606 Rbin-1

CAS# 328023-11-6 3-[(2-Methyl-2-propen-1-yl)sulfanyl]-5H-[1,2,4]triazino[5,6-b]indole Lot # FBA4115

Rbin-1 is potent ($GI_{50} = 136$ nM) and reversible inhibitor of eukaryotic ribosome assembly. The biochemical target of Rbin-1 is Midasin (Mdn1), an essential AAA+ protein. Blocking of Mdn1 by Rbin-1 inhibits the processing of pre-60S particles, important pre-ribosomal subunits produced in the nucleolus.

1) Kawashime et al. (2016), Potent, Reversible, and Specific Chemical Inhibitors of Eukaryotic Ribosome Biogenesis; Cell **167** 512

PHYSICAL DATA

 $\begin{tabular}{lll} Molecular Weight: & 256.33 \\ Molecular Formula: & C_{13}H_{12}N_4S \\ Purity: & >98\% \ (TLC) \\ \end{tabular}$

NMR: (Conforms)

Solubility: DMSO (>25 mg/mL)
Physical Description: Pale yellow solid

Storage and Stability: Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in

DMSO may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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