SL-87. eIF4A3 Inhibitors

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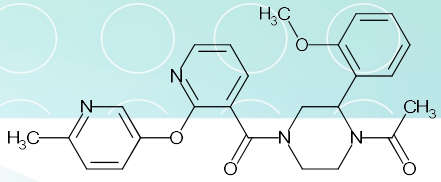
ATP-dependent RNA helicase eIF4A3 regulates several cellular processes including alteration of RNA secondary structure and involved in embryogenesis, spermatogenesis, and cellular growth and division [1]. Small molecule probes that can selectively bind to eIF4A3 provide a valuable starting point for therapeutic exploitation of eIF4A3 functions in cancer and genetic diseases. Several ATP-competitive and non-ATP competitive (allosteric) eIF4A3 inhibitors are known [1].

A series of **5-(piperazine-1-carbonyl)pyridin-2(1H)-one** derivatives have been identified as useful probe molecules for studying the eIF4A3 cell biology and exploring its therapeutic potential in cancer models.

A similarity search through ASINEX's compound collection identified several analogs of the reported inhibitors.



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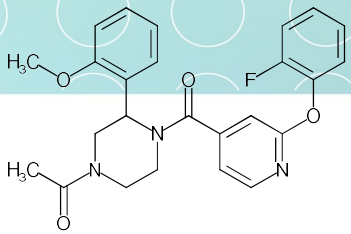

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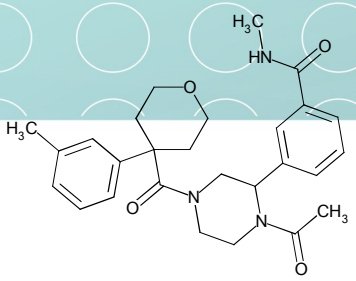

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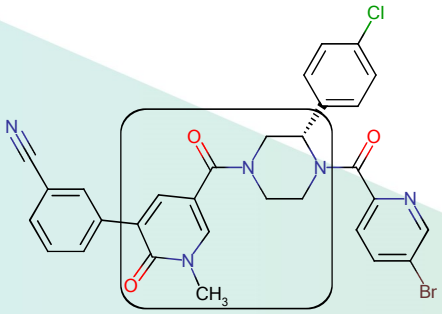

Compound 1o [1]

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Formats	Supplementary Information
80 compounds per plate 0.1 mg; 1 mg; 2 mg dry film/powder 0.1 µmol; 1 µmol DMSO solutions	SL#87_eIF4A3_inh.sdf

References:

1. *ACS Med Chem Lett.* 2017 Sep 8;8(10):1077-1082. doi: 10.1021/acsmedchemlett.7b00283

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