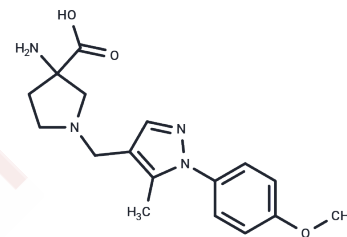


KI-DX-014

## Chemical Properties

CAS No. : 1309288-83-2  
 Formula: C17H22N4O3  
 Molecular Weight: 330.38  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
 Actual storage temperature shall be subject to the COA.



## Biological Description

Description	KI-DX-014 is a DDX21 inhibitor with an IC50 of 3.31 $\mu$ M. It effectively disrupts the interaction between DDX21 and RNA, modulates ATPase activity, and influences the formation of biomolecular condensates. This compound reduces the release of DDX21-dependent P-TEFb from the 7SK snRNP complex, inhibits RNA polymerase II CTD phosphorylation, and induces developmental defects in zebrafish embryos. KI-DX-014 is applicable in research related to cancer and neurodegenerative diseases.
Targets(IC50)	ATPase,DNA/RNA Synthesis

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0268 mL	15.1341 mL	30.2682 mL
5 mM	0.6054 mL	3.0268 mL	6.0536 mL
10 mM	0.3027 mL	1.5134 mL	3.0268 mL
50 mM	0.0605 mL	0.3027 mL	0.6054 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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