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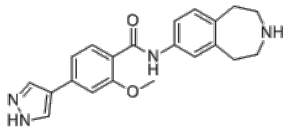
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	MELK-T1
Cat. No.	:	PC-70140
CAS No.	:	1610586-62-3
Molecular Formula	:	$C_{21}H_{22}N_4O_2$
Molecular Weight	:	362.433
Target	:	MELK
Solubility	:	10 mM in DMSO



Biological Activity

MELK-T1 (JNJ-47117096) is a cell-permeable, potent and selective inhibitor of **MELK** kinase domain with IC50 of 37 nM.
MELK-T1 (JNJ-47117096) shows >50% inhibition at 1 uM against 6 kianses in a panel of 235 kinases (Flt3 IC50=18 nM).
MELK-T1 (JNJ-47117096) triggers a rapid and proteasome-dependent degradation of the MELK protein, induces the accumulation of stalled replication forks and DSBs in MCF-7 cells.
MELK-T1 (JNJ-47117096) induces a strong phosphorylation of p53, a prolonged up-regulation of p21 and a down-regulation of FOXM1 target genes.

References

Beke L, et al. ***Biosci Rep.*** 2015 Oct 2;35(6). pii: e00267.

Johnson CN, et al. ***ACS Med Chem Lett.*** 2014 May 23;6(1):25-30.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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