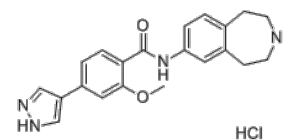


Product Name : MELK-T1 hydrochloride
Cat. No. : PC-70139
CAS No. : 1610536-69-0
Molecular Formula : C₂₁H₂₃ClN₄O₂
Molecular Weight : 398.891
Target : MELK
Solubility : 10 mM in DMSO



Biological Activity

MELK-T1 (JNJ-47117096) hydrochloride is a cell-permeable, potent and selective inhibitor of **MELK** kinase domain with IC₅₀ of 37 nM.

MELK-T1 shows >50% inhibition at 1 uM against 6 kianses in a panel of 235 kinases (Flt3 IC₅₀=18 nM);

MELK-T1 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 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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