

Data Sheet

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 Product Name
 : URMC-099

 Cat. No.
 : PC-43118

 CAS No.
 : 1229582-33-5

 Molecular Formula
 : C27H27N5

 Molecular Weight
 : 421.5368

Target : Mixed Lineage Kinase (MLK)

Solubility : DMSO: ≥ 33 mg/mL

Biological Activity

URMC-099 is a potent, orally bioavailable, brain penetrant inhibitor of mixed lineage kinase 3 (**MLK3**) with IC50 of 14 nM. URMC-099 shows >90% inhibition against 111 kinases in a panel of 442 kinases at 1 uM.

URMC-099 likely functions in HIV-1 associated neurocognitive disorders (HAND) preclinical models by inhibiting multiple kinase pathways, including MLK3 and LRRK2 (IC50=11 nM).

URMC-099 inhibits LPS-induced TNF α release in microglial cells, HIV-1 Tat-induced release of cytokines in human monocytes and up-regulation of phospho-JNK in Tat-injected brains of mice.

References

Marker DF, et al. *J Neurosci*. 2013 Jun 12;33(24):9998-10010.

Goodfellow VS, et al. *J Med Chem*. 2013 Oct 24;56(20):8032-48.

Zhang G, et al. *Nanomedicine*. 2016 Jan;12(1):109-22.

Polesskaya O, et al. *Mol Immunol.* 2014 Apr;58(2):214-22.

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

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