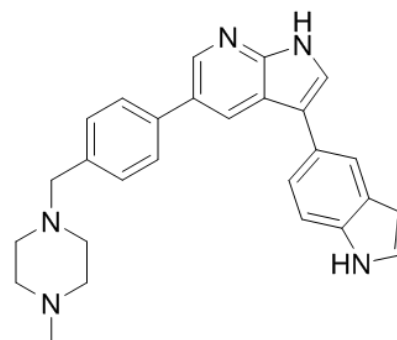


**Product Name** : URMC-099  
**Cat. No.** : PC-43118  
**CAS No.** : 1229582-33-5  
**Molecular Formula** : C<sub>27</sub>H<sub>27</sub>N<sub>5</sub>  
**Molecular Weight** : 421.5368  
**Target** : Mixed Lineage Kinase (MLK)  
**Solubility** : DMSO: ≥ 33 mg/mL



## Biological Activity

URMC-099 is a potent, orally bioavailable, brain penetrant inhibitor of mixed lineage kinase 3 (**MLK3**) with IC<sub>50</sub> of 14 nM. URMC-099 shows >90% inhibition against 111 kinases in a panel of 442 kinases at 1 μM. URMC-099 likely functions in HIV-1 associated neurocognitive disorders (HAND) preclinical models by inhibiting multiple kinase pathways, including MLK3 and LRRK2 (IC<sub>50</sub>=11 nM). URMC-099 inhibits LPS-induced TNFα 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

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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!**

E-mail: tech@probechem.com