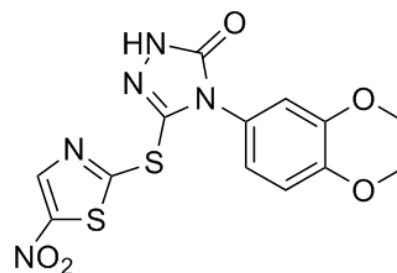


**Product Name** : BI-78D3  
**Cat. No.** : PC-42552  
**CAS No.** : 883065-90-5  
**Molecular Formula** : C<sub>13</sub>H<sub>9</sub>N<sub>5</sub>O<sub>5</sub>S<sub>2</sub>  
**Molecular Weight** : 379.37106  
**Target** : JNK  
**Solubility** : DMSO: ≥ 31 mg/mL



## Biological Activity

BI-78D3 is a small molecule JIP1 mimic that functions as substrate competitive inhibitor of **JNK** with IC<sub>50</sub> of 500 nM.

BI-78D3 targets the JNK-JIP interaction site and dose-dependently inhibits the phosphorylation of JNK substrates both in vitro and in cell.

BI-78D3 blocks JNK dependent Con A-induced liver damage, restores insulin sensitivity in mouse models of type 2 diabetes.

## References

Stebbins JL, et al. *Proc Natl Acad Sci U S A*. 2008 Oct 28;105(43):16809-13.

Strittmatter F, et al. *Br J Pharmacol*. 2012 Jul;166(6):1926-35.

Posthumadeboer J, et al. *Oncotarget*. 2012 Oct;3(10):1169-81.

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

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