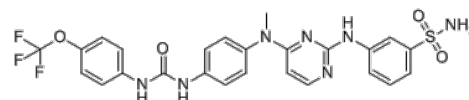


**Product Name** : GW 806742X  
**Cat. No.** : PC-70325  
**CAS No.** : 579515-63-2  
**Molecular Formula** : C<sub>25</sub>H<sub>22</sub>F<sub>3</sub>N<sub>7</sub>O<sub>4</sub>S  
**Molecular Weight** : 573.551  
**Target** : Mixed Lineage Kinase (MLK)  
**Solubility** : 10 mM in DMSO



## Biological Activity

GW 806742X (T0446) is a small molecule MLKL (Mixed Lineage Kinase Domain-Like) interactor that binds the **MLKL pseudokinase domain** (K<sub>d</sub>=9.3 μM), retards membrane association to inhibit necroptosis.

GW 806742X rescues 50% of wild-type MDFs from TSQ-induced necroptosis with IC<sub>50</sub> <50 nM, with >50-fold greater potency than Nec-1.

GW 806742X enhances RIPK3-mediated phosphorylation of MLKL (S345 and S347) at 10 μM.

GW 806742X (T0446) also activates **PINK1-Parkin** signaling, induces Parkin mitochondrial translocation in dopaminergic neurons differentiated from iPS cells (iPSCs) without obvious ΔΨ<sub>m</sub> reduction and cell toxicity.

## References

- Hildebrand JM, et al. *Proc Natl Acad Sci U S A*. 2014 Oct 21;111(42):15072-7.
- Shiba-Fukushima K, et al. *iScience*. 2020 May 22;23(5):101048.

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

E-mail: tech@probechem.com