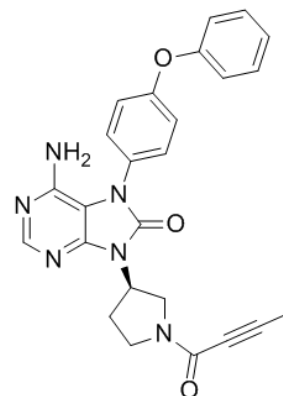


**Product Name** : Tirabrutinib  
**Cat. No.** : PC-44704  
**CAS No.** : 1351636-18-4  
**Molecular Formula** : C<sub>25</sub>H<sub>22</sub>N<sub>6</sub>O<sub>3</sub>  
**Molecular Weight** : 454.4806  
**Target** : BTK  
**Solubility** : 10 mM in DMSO



## Biological Activity

Tirabrutinib (ONO 4059, GS 4059) is a potent, selective, third-generation irreversible inhibitor of **mutant EGFR** with IC<sub>50</sub>s of 1/12/5 nM for L858R-T790M/L858R/L861Q respectively.

Tirabrutinib (ONO 4059, GS 4059) shows weak activity against wt EGFR (IC<sub>50</sub>=184 nM).

Tirabrutinib (ONO 4059, GS 4059) inhibits signaling pathways and cellular growth in both EGFRm(+) and EGFRm(+)/T790M(+) mutant cell lines in vitro.

Tirabrutinib (ONO 4059, GS 4059) exhibits tumor regression in EGFR-mutant tumor xenograft and transgenic models; orally active.

## References

Walter HS, et al. *Blood*. 2016 Jan 28;127(4):411-9.

Yahiaoui A, et al. *PLoS One*. 2017 Feb 8;12(2):e0171221.

Yasuhiro T, et al. *Leuk Lymphoma*. 2017 Mar;58(3):699-707.

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

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