

## **Data Sheet**

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 Product Name
 : Tarloxotinib

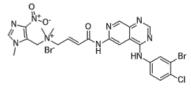
 Cat. No.
 : PC-25509

 CAS No.
 : 1636180-98-7

 Molecular Formula
 : C24H24Br2CIN9O3

Molecular Weight: 681.77
Target: EGFR

**Solubility** : 10 mM in DMSO



CAS: 1636180-98-7

## **Biological Activity**

Tarloxotinib (TH-4000) is a hypoxia-activated pan-HER inhibitor, generates the active form TH-4000Effector (TH-4000E) under hypoxic condition, TH-4000E selectively inhibits EGFR, HER2 and HER4 with IC50 of <1 nM.

TH-4000E has a highly selective inhibitory effect on HER2+ breast cancer cells, shows IC50 of 8.84 nM, 13.14 nM, 108.92 nM and 126.20 nM for HER2+ breast cancer cells BT-474, SK-BR-3, HCC-1954 and JIMT-1 respectively.

TH-4000E showed highest selectivity to EGFR, HER2 and HER4 among 217 kinases, with IC50 of <1 nM.

TH-4000E inhibits phosphorylation of HER family proteins in HER2+ breast cancer cells.

TH-4000E induces cellular apoptosis in HER2+ breast cancer cells, through a ROS-dependent manner.

Tarloxotinib (TH-4000) (50 mg/kg per week by intraperitoneal injection) inhibited tumor growth in a xenograft model.

## References

Xinyi Shao, et al. Arch Toxicol. 2024 Mar;98(3):865-881.

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

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