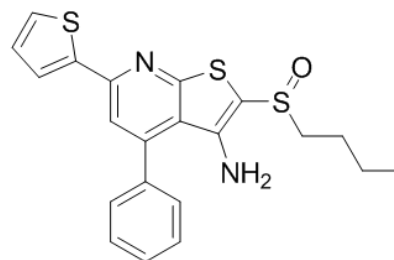


**Product Name** : SW033291  
**Cat. No.** : PC-45107  
**CAS No.** : 459147-39-8  
**Molecular Formula** : C<sub>21</sub>H<sub>20</sub>N<sub>2</sub>OS<sub>3</sub>  
**Molecular Weight** : 412.5913  
**Target** : 15-PGDH  
**Solubility** : 10 mM in DMSO



### Biological Activity

SW033291 (SW-033291) is a potent and selective inhibitor of **15-PGDH** with K<sub>i</sub> of 0.1 nM, IC<sub>50</sub> of 1.5 nM.

SW033291 increases PGE<sub>2</sub> levels by 3.5-fold at 500 nM, with EC<sub>50</sub> of 75 nM.

SW033291 increases prostaglandin PGE<sub>2</sub> levels in bone marrow and other tissues, accelerates hematopoietic recovery in mice receiving a bone marrow transplant.

SW033291 also promotes tissue regeneration in mouse models of colon and liver injury.

### References

Zhang Y, et al. *Science*. 2015 Jun 12;348(6240):aaa2340.

Antczak MI, et al. *J Med Chem*. 2017 May 11;60(9):3979-4001.

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

E-mail: tech@probechem.com