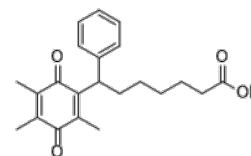


**Product Name** : Seratrodast  
**Cat. No.** : PC-23531  
**CAS No.** : 112665-43-7  
**Molecular Formula** : C<sub>22</sub>H<sub>26</sub>O<sub>4</sub>  
**Molecular Weight** : 354.45  
**Target** : Prostaglandin Receptor  
**Solubility** : 10 mM in DMSO



## Biological Activity

Seratrodast (AA2414) is a potent, specific thromboxane A<sub>2</sub> (TXA<sub>2</sub>) receptor antagonist, competitively inhibits the contractile response to U-46619 in guinea pig tracheal and parenchymal strips and dog saphenous vein strips with pA<sub>2</sub> values of 7.69, 8.29 and 6.79, respectively, also inhibits ferroptosis.

Seratrodast (AA2414) inhibits the contractile responses of guinea pig tracheal strip to PGD<sub>2</sub>, 9 alpha, 11 beta-PGF<sub>2</sub> and PGF<sub>2</sub> alpha with pA<sub>2</sub> values of 7.20, 7.79 and 5.71, respectively.

Seratrodast (AA2414) inhibits ferroptosis by suppressing lipid peroxidation.

Seratrodast (AA2414) reduces lipid ROS production, modulates the systemic xc<sup>-</sup>/GSH/GPX4 axis, and inhibits JNK phosphorylation and p53 expression.

Seratrodast (AA2414) suppresses ferroptosis, but not apoptosis and necroptosis.

Seratrodast (AA2414) ameliorates the severity of renal ischemia-reperfusion injury in mice.

## References

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Fujimura M, et al. J Allergy Clin Immunol. 1991 Jan;87(1 Pt 1):23-7.

Tschuck J, et al. Cell Death Dis. 2024 Nov 22;15(11):853.

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

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