

## Product Data Sheet

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Product Name: Seratrodast

Cat. No.: GC18111

### Chemical Properties

Cas. No. 112665-43-7

Chemical Name  $\zeta$ -(2,4,5-trimethyl-3,6-dioxo-1,4-cyclohexadien-1-yl)-benzeneheptanoic acid

SMILES OC(CCCCCC(C1=CC=CC=C1)C(C(C(C)=C2C)=O)=C(C)C2=O)=O

Formula  $C_{22}H_{26}O_4$  M.Wt 354.4

Solubility  $\geq 10.9\text{mg/mL}$  in DMSO Storage Store at  $-20^{\circ}\text{C}$

General tips For obtaining a higher solubility, please warm the tube at  $37^{\circ}\text{C}$  and shake it in the ultrasonic bath for a while. Stock solution can be stored below  $-20^{\circ}\text{C}$  for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

**Caution: Product has not been fully validated for medical applications. For research use only.**

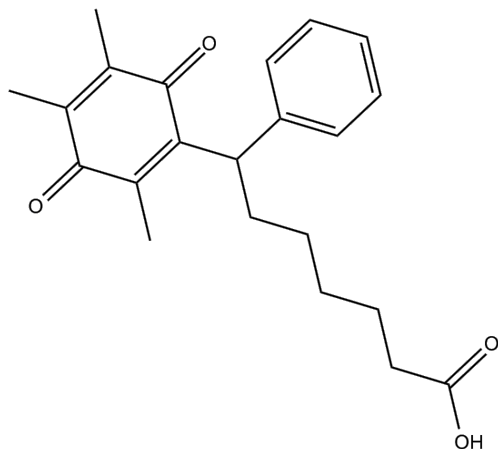
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### Structure



### Background

IC50: 7.4 nM for guinea pig platelets

Seratrodist is a thromboxane A2 (TXA2) receptor antagonist.

Thromboxane A2, a type of thromboxane, is produced by activated platelets and has prothrombotic properties, such as stimulating activation of new platelets and increasing platelet aggregation.

In vitro: Seratrodist was found to inhibit the aggregation of guinea pig platelets induced by a prostaglandin endoperoxide analogue, U-44069 and the specific binding of another analogue, [3H]U-46619 to washed guinea pig platelets. Seratrodist could competitively inhibit the contraction of rabbit aorta and pig coronary arteries induced by U-44069. Seratrodist also inhibited the contraction of rabbit aorta induced by PGF2 alpha and the contraction of pig coronary arteries. However, seratrodist had no effect on the antiaggregatory effect of guinea pig platelets [1].

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In vivo: In experiments with guinea pigs, oral seratrodast at 0.1-1 mg/kg could dose-dependently inhibit the platelet aggregation induced by U-44069; the inhibition at 1 mg/kg was 100% at 1 hr and was 89% even at 24 hr after seratrodast administration [1].

Clinical trial: So far, no clinical study has been conducted.

### Reference:

[1] Imura, Y. ,Terashita, Z.,Shibouta, Y., et al. Antagonistic action of AA-2414 on thromboxane A<sub>2</sub>/prostaglandin endoperoxide receptor in platelets and blood vessels. Japanese Journal of Pharmacology 52(1), 35-53 (1990).

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