

Product Data Sheet

Product Name: Seratrodast

Cat. No.: GC18111

Chemical Properties

Cas. No. 112665-43-7

Chemical Name ζ -(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°C

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°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.

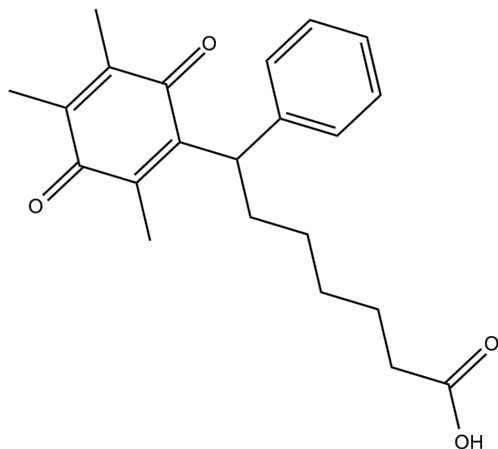
Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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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 α 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 A₂/prostaglandin endoperoxide receptor in platelets and blood vessels. Japanese Journal of Pharmacology 52(1), 35-53 (1990).

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