

Product Data Sheet

Product Name: (+)-Talinolol

Cat. No.: GC81824

Chemical Properties

Cas. No. 71369-60-3

Formula $C_{20}H_{33}N_3O_3$

M.Wt 363.49

Solubility DMSO: ≥ 100 mg/mL (275.11 mM)

Storage Store at 4°C, sealed storage, away from moisture

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.

Structure



Background

(+)-Talinolol is an isomer of Talinolol. Talinolol (Cordanum) is a long-acting, cardioselective β_1 -adrenergic receptor blocker. Talinolol exhibits cardioprotective and antihypertensive activities. Talinolol is also a well-known and frequently used probe substrate for P-glycoprotein (P-gp) activity.

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

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[1] [2].

References:

- [1]. Assmann I. The actions of talinolol, a beta 1-selective beta blocker, in cardiac arrhythmia and acute myocardial infarction. *Curr Med Res Opin.* 1995;13(6):325-42.
- [2]. Kara ZP, et, al. The effects of P-glycoprotein inhibitor zosuquidar on the sex and time-dependent pharmacokinetics of parenterally administered talinolol in mice. *Eur J Pharm Sci.* 2021 Jan 1;156:105589.
- [3]. Shirasaka Y, et, al. Species difference in the effect of grapefruit juice on intestinal absorption of talinolol between human and rat. *J Pharmacol Exp Ther.* 2010 Jan;332(1):181-9.

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