
Product Data Sheet

Product Name: S-22153
Cat. No.: GC64204

Chemical Properties

Cas. No. 180304-07-8

Formula C₁₄H₁₇NOS

M.Wt 247.36

Solubility DMSO : 100 mg/mL (404.27 mM; Need ultrasonic) 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.

Structure

Background

S-22153 is a potent melatonin receptor antagonist with EC₅₀ values of 19 nM, 4.6 nM for hMT1 and hMT2 melatonin receptor, respectively. S-22153 has K_i values of 8.6 nM (CHO cells) and 16.3 nM (HEK cells) for hMT1, and 6.0 nM (CHO cells) and 8.2 nM (HEK cells) for hMT2. S-22153 is a specific ligand of MT1 and MT2 melatonin receptors subtypes[1] [2].

S-22153 sets the temperature and activity periods to approximately 24 hr and increase the circadian amplitude of both rhythms in mice, which exposed to continuous light[1] .

[1]. Li XM, et al. Circadian rhythm entrainment with melatonin, melatonin receptor antagonist S22153 or their combination in mice exposed to constant light. J Pineal Res. 2004;37(3):176-184. [2]. Audinot V, et al. New selective ligands of human cloned melatonin MT1 and MT2 receptors. Naunyn Schmiedeberg's Arch Pharmacol. 2003;367(6):553-561.

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

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