

Adrafinil

Catalog No: tcsc2192



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

63547-13-7

Formula:

$C_{15}H_{15}NO_3S$

Pathway:

GPCR/G Protein

Target:

Adrenergic Receptor

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

CRL 40028

Observed Molecular Weight:

289.35

Product Description

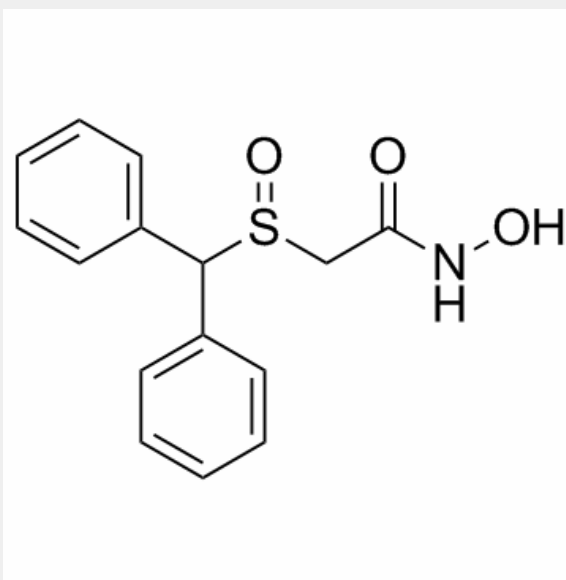
Adrafinil (CRL-40028, Olmifon), prodrug of modafinil, is a mild central nervous system stimulant drug used to relieve excessive sleepiness and inattention, Adrafinil is believed to serve as an alpha-1 adrenoceptor agonist.

IC50 value:

Target:

in vitro:

in vivo: CRL 40028 antagonizes prazosin-induced hypothermia and hypomotility; prazosin antagonizes the anticonvulsant effect of CRL 40028 in the quaking mouse [1]. Adrafinil in rat serum was stable over three freeze-thaw cycles at ambient temperature for 6 h. The method had a lower limit of quantitation of 16.5 ng/ml, which offered high sensitivity for the determination of adrafinil in serum [2]. Aged beagle dogs were trained on either a size or intensity discrimination task 2 h following treatment with either 20 mg/kg of adrafinil or a placebo control. Treatment with adrafinil produced significant improvement in learning, as indicated by a decrease in both errors and trials to criterion. An effect of adrafinil on motivation may partially account for these findings; however, adrafinil did not significantly affect response latency. Adrafinil is believed to serve as an alpha-1 adrenoceptor agonist [3].



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