

Product Data Sheet

Product Name: Perospirone

Cat. No.: GC39237

Chemical Properties

Cas. No. 150915-41-6

SMILES O=C([C@@]1([H])[C@]2([H])CCCC1)N(C2=O)CCCCN3CCN(C4=NSC5=C4C=CC=C5)CC3

Formula $C_{23}H_{30}N_4O_2S$ M.Wt 426.57

Solubility DMSO : 5 mg/mL (11.72 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.

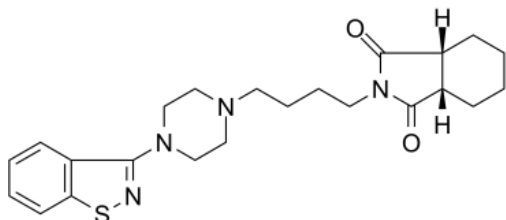
Caution: Product has not been fully validated for medical applications. For research use only.

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

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Structure



Background

Perospirone (SM-9018 free base) is an orally active antagonist of 5-HT_{2A} receptor ($K_i=0.6$ nM) and dopamine D₂ receptor ($K_i=1.4$ nM), and also a partial agonist of 5-HT_{1A} receptor ($K_i=2.9$ nM). Perospirone is an atypical antipsychotic drug and has the potential for schizophrenic disease[1][2].

[1]. Kato T, et al. Binding profile of SM-9018, a novel antipsychotic candidate. *pn J Pharmacol.* 1990 Dec;54(4):478-81. [2]. Hagiwara H, et al. Phencyclidine-induced cognitive deficits in mice are improved by subsequent subchronic administration of the antipsychotic drug perospirone: role of serotonin 5-HT_{1A} receptors. *Eur Neuropsychopharmacol.* 2008 Jun;18(6):448-54.

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