
Product Data Sheet

Product Name: AZD1979

Cat. No.: GC31643

Chemical Properties

Cas. No. 1254035-84-1

SMILES O=C(C1=NN=C(C2=CC=C(OC)C=C2)O1)N3CC(OC4=CC=C(CN(C5)CC65COC6)C=C4)C3Formula C₂₅H₂₆N₄O₅

M.Wt 462.5

Solubility DMSO : 33.33 mg/mL (72.06 mM; ultrasonic and warming and heat to 60°C)

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 **Protocol****Animal experiment:**

Three weeks after the light-dark cycle have been reversed, all mice are sham dosed by p.o. gavage for 6 days to habituate the animals to the procedure, randomized into experimental groups base on average body weights and dosed p.o. with AZD1979 (20, 40 or 60 µmol/kg twice daily at 8:00 h and 15:00 h) or vehicle (0.5% HPMC, 0.1% Tween twice daily) for 21 days (n=6 per group). Three mice per group are then dosed once more with the respective doses of AZD1979 (20, 40 or 60 µmol/kg p.o.) and killed after 17 h by administration of an overdose of isoflurane (anaesthesia)[1].

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

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References:

[1]. Ploj K, et al. Effects of a novel potent melanin-concentrating hormone receptor 1 antagonist, AZD1979, on body weight homeostasis in mice and dogs. Br J Pharmacol. 2016 Sep;173(18):2739-51.

Background

AZD1979 is a Melanin-concentrating hormone receptor 1 (MCHr1) antagonist with an IC₅₀ of ~12 nM.

In DIO mice, initial AZD1979-mediate body weight loss is driven by decreasing food intake, but an additional component of preserving energy expenditure is apparent in pair-feeding and indirect calorimetry studies. AZD1979 also dose-dependently reduces body weight in dogs[1].

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