

PRODUCT INFORMATION



AZD 1979

Item No. 45989

CAS Registry No.: 1254035-84-1

Formal Name: [5-(4-methoxyphenyl)-1,3,4-oxadiazol-2-yl][3-[4-(2-oxa6-azaspiro[3.3]hept-6-ylmethyl)phenoxy]-1-azetidiny]-methanone

MF: C₂₅H₂₆N₄O₅

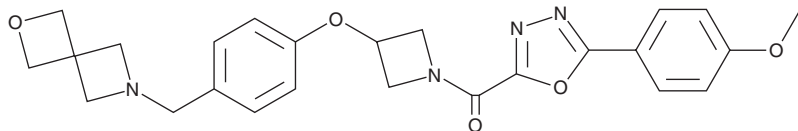
FW: 462.5

Purity: ≥98%

Supplied as: A solid

Storage: -20°C

Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

AZD 1979 is supplied as a solid. A stock solution may be made by dissolving the AZD 1979 in the solvent of choice, which should be purged with an inert gas. AZD 1979 is sparingly soluble (1-10 mg/ml) in acetonitrile:water (1:1):

Description

AZD 1979 is an antagonist of melanin-concentrating hormone receptor 1 (MCH₁; IC₅₀ = 11 nM).¹ It is selective for MCH₁ over human-ether-a-go-go (hERG) and MCH₂ (IC₅₀s = 22 and >40 μM, respectively). AZD 1979 (60 μmol/kg, p.o.) reduces food intake and body weight in wild-type but not *Mchr1* knockout mice in a model of diet-induced obesity.²

References

1. Johansson, A., Löfberg, C., Antonsson, M., *et al.* Discovery of (3-(4-(2-oxa-6-azaspiro[3.3]heptan-6-ylmethyl)phenoxy)azetidino-1-yl)(5-(4-methoxyphenyl)-1,3,4-oxadiazol-2-yl)methanone (AZD1979), a melanin concentrating hormone receptor 1 (MCHR1) antagonist with favorable physicochemical properties. *J. Med. Chem.* **59**(6), 2497-2511 (2016).
2. Ploj, K., Benthem, L., Kakol-Palm, D., *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.* **173**(18), 2739-2751 (2016).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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