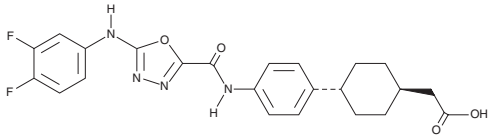
PRODUCT INFORMATION

AZD 3988

Item No. 46565

CAS Registry No.: 892489-52-0
Formal Name: *trans*-4-[4-[[[5-[(3,4-difluorophenyl) amino]-1,3,4-oxadiazol-2-yl]carbonyl] amino]phenyl]-cyclohexaneacetic acid
MF: $C_{23}H_{22}F_2N_4O_4$
FW: 456.4
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 3988 is supplied as a solid. A stock solution may be made by dissolving the AZD 3988 in the solvent of choice, which should be purged with an inert gas. AZD 3988 is soluble (≥10 mg/ml) in DMSO.

Description

AZD 3988 is an inhibitor of diacylglycerol acyltransferase 1 (DGAT-1; IC_{50} = 0.6 nM for the human enzyme).[1] It is selective for DGAT-1 over DGAT-2 at 10 µM. AZD 3988 inhibits triacylglycerol synthesis in HuTu 80 cells (IC_{50} = 0.5 nM) and oleic acid-induced lipid droplet accumulation in human duodenal organoids at 100 nM.[1,2] It decreases plasma triglyceride levels in an oral lipid tolerance test in fasted rats. AZD 3988 (20 mg/kg, p.o.) reduces body weight in diet-induced obese (DIO) mice.[1]

References

1. McCoull, W., Addie, M.S., Birch, A.M., *et al*. Identification, optimisation and in vivo evaluation of oxadiazole DGAT-1 inhibitors for the treatment of obesity and diabetes. *Bioorg. Med. Chem. Lett*. **22(12)**, 3873-3878 (2012).
2. van Rijn, J.M., Ardy, R.C., Kuloğlu, Z., *et al*. Intestinal failure and aberrant lipid metabolism in patients with DGAT1 deficiency. *Gastroenterology* **155(1)**, 130-143.e15 (2018).

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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