PRODUCT INFORMATION



TAK-385

Item No. 29512

CAS Registry No.: Formal Name:	737789-87-6 N-[4-[1-[(2,6-difluorophenyl) methyl]-5-[(dimethylamino) methyl]-1,2,3,4-tetrahydro-3- (6-methoxy-3-pyridazinyl)-2,4- dioxothieno[2,3-d]pyrimidin-6-yl] phenyl]-N'-methoxy-urea	
Synonym:	Relugolix	
MF:	C ₂₉ H ₂₇ F ₂ N ₇ O ₅ S	
FW:	623.6	
Purity:	≥98%	N N N
UV/Vis.:	λ _{max} : 291 nm	
Supplied as:	A crystalline solid	7
Storage:	-20°C	
Stability:	≥4 years	

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

Laboratory Procedures

TAK-385 is supplied as a crystalline solid. A stock solution may be made by dissolving the TAK-385 in the solvent of choice, which should be purged with an inert gas. TAK-385 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of TAK-385 in these solvents is approximately 1, 20, and 25 mg/ml, respectively.

DMF is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, DMF should first be dissolved in PBS and then diluted with the aqueous buffer of choice. DMF has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

TAK-385 is an orally bioavailable gonadotropin-releasing hormone receptor (GnRHR) antagonist $(IC_{50c} = 0.33 \text{ and } 0.32 \text{ nM}$ for the human and monkey receptors, respectively).¹ It is selective for these receptors over the rat GnRHR receptor (IC₅₀ = 9,800 nM), as well as a panel of 134 enzymes and receptors at 10 μ M. TAK-385 is 95-fold more potent at inhibiting GnRH-induced arachidonic acid (Item Nos. 90010 | 90010.1 | 10006607) release in CHO cells expressing human GnRHR compared with those expressing monkey GnRHR. It decreases testis, ventral prostate, ovary, and uterus weight in human GNRHR knock-in mice when administered at doses ranging from 3 to 200 mg/kg per day for 28 days.² TAK-385 (1 and 3 mg/kg) also decreases plasma luteinizing hormone levels in castrated cynomolgus monkeys.1

References

- 1. Miwa, K., Hitaka, T., Imada, T., et al. J. Med. Chem. 54(14), 4998-5012 (2011).
- 2. Nakata, D., Masaki, T., Tanaka, A., et al. Eur. J. Pharmacol. 723, 167-174 (2014).

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

SAFFTY 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.

WARRANTY AND LIMITATION OF REMEDY

uyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 11/03/2022

CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD ANN ARBOR, MI 48108 · USA PHONE: [800] 364-9897 [734] 971-3335 FAX: [734] 971-3640 CUSTSERV@CAYMANCHEM.COM WWW.CAYMANCHEM.COM