PRODUCT INFORMATION



ML-179

Item No. 15180

CAS Registry No.:	1883548-87-5	
Formal Name:	3-cyclohexyl-6-[4-[3-	
	(trifluoromethyl)phenyl]-	
	1-piperazinvl]-2.4(1H.3H)-	
	pyrimidinedione	
Synonym:	CID-45100448	
MF:	$C_{21}H_{25}F_{3}N_{4}O_{2}$	$\langle , \rangle \rightarrow N \qquad N \rightarrow \langle , \rangle \rightarrow \langle \rangle$
FW:	422.4	
Purity:	≥98%	\\ O
UV/Vis.:	λ _{max} : 274 nm	
Supplied as:	A crystalline 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

ML-179 is supplied as a crystalline solid. A stock solution may be made by dissolving the ML-179 in the solvent of choice, which should be purged with an inert gas. ML-179 is soluble the organice solvent DMSO at a concentration of approximately 10 mg/ml.

ML-179 is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Description

ML-179 is a potent inverse agonist of liver receptor homolog-1 (LRH-1) (IC₅₀ = 320 nM) with maximum efficacy of 40% repression.¹ It is inactive at the related steroidogenic factor-1 transcriptional activator.¹ Through LRH-1, ML-180 alters the expression of haptoglobin and serum amyloid proteins A1 and A4, induces the death of estrogen-receptor negative MDA-MB-231 breast cancer cells, and inhibits the steroidogenic acute regulatory promoter (IC₅₀ = 2.12 μ M).¹

Reference

1. Busby, S., Nuhant, P., Cameron, M., et al. Discovery of inverse agonists for the liver receptor homologue-1 (LRH1; NR5A2), in Probe Reports from the NIH Molecular Libraries Program, 1 (2010).

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.

WARRANTY AND LIMITATION OF REMEDY

Super 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.

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