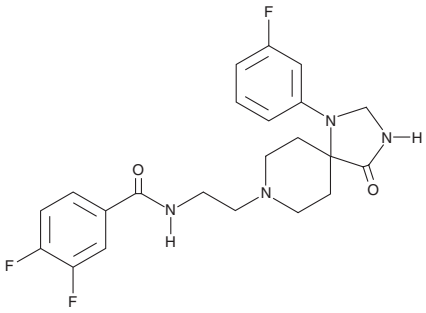
PRODUCT INFORMATION

ML-298

Item No. 15349



CAS Registry No.:	1426916-02-0
Formal Name:	3,4-difluoro-N-[2-[1-(3-fluorophenyl)-4-oxo-1,3,8-triazaspiro[4.5]dec-8-yl]ethyl]-benzamide
MF:	$C_{22}H_{23}F_3N_4O_2$
FW:	432.4
Purity:	≥98%
UV/Vis.:	λ_{max}: 203, 249 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-298 is supplied as a crystalline solid. A stock solution may be made by dissolving the ML-298 in the solvent of choice. ML-298 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of ML-298 in these solvents is approximately 1, 20, and 10 mg/ml, respectively.

Description

ML-298 is an inhibitor of phospholipase D_2 (PLD_2; IC_{50} = 355 nM).[1] It is selective for PLD_2 over PLD_1 (IC_{50} = 20,000 nM). It decreases invasive migration of U87-MG glioblastoma cells when used at a concentration of 10 µM without inducing cytotoxicity.

Reference

1. O'Reilly, M.C., Scott, S.A., Brown, K.A., *et al.* Development of dual PLD1/2 and PLD2 selective inhibitors from a common 1,3,8-triazaspiro[4.5]decane core: Discovery of ML298 and ML299 that decrease invasive migration in U87-MG glioblastoma cells. *J. Med Chem.* **56(6)**, 2695-2699 (2013).

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
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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