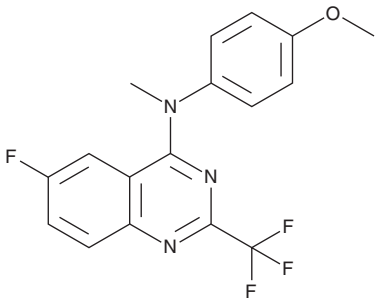
PRODUCT INFORMATION

Tubulin Polymerization-IN-43

Item No. 46485

CAS Registry No.:	2773345-90-5
Formal Name:	6-fluoro-N-(4-methoxyphenyl)-N-methyl-2-(trifluoromethyl)-4-quinazolinamine
Synonym:	Tubulin Polymerization Inhibitor 43
MF:	$C_{17}H_{13}F_4N_3O$
FW:	351.3
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

Tubulin polymerization-IN-43 is supplied as a solid. A stock solution may be made by dissolving the tubulin polymerization-IN-43 in the solvent of choice, which should be purged with an inert gas. Tubulin polymerization-IN-43 is paringly soluble (1-10 mg/ml) in DMSO.

Description

Tubulin polymerization-IN-43 is an inhibitor of tubulin polymerization.[1] It inhibits tubulin polymerization in a cell-free assay and in K562 chronic myeloid leukemia (CML) cells at 0.5 µM. Tubulin polymerization-IN-43 induces apoptosis and G_2/M cell cycle arrest in K562 CML and HEL 92.1.7 erythroleukemia cells at 0.5 µM. It inhibits the proliferation of HeLa cervical cancer, HEL 92.1.7, K562, and LNCaP prostate cancer cells (IC_{50}s = 0.011, 0.099, 0.265, and 0.377 µM, respectively) and the migration of isolated human umbilical vein endothelial cells (HUVECs) in a scratch assay.

Reference

1. Wu, H., Wang, L.-S., Li, P., *et al.* Discovery of novel *N*-aryl-2-trifluoromethyl-quinazoline-4-amine derivatives as the inhibitors of tubulin polymerization in leukemia cells. *Eur. J. Med. Chem.* **256,** 115470 (2023).

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
Buyer 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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