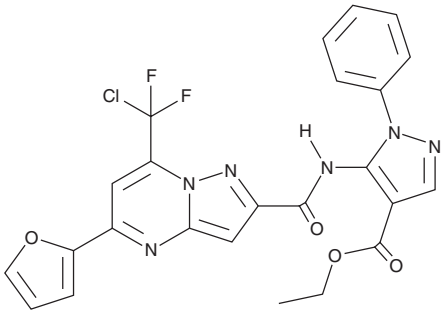
PRODUCT INFORMATION

Mycro 3

Item No. 37767

CAS Registry No.:	944547-46-0
Formal Name:	5-[[[7-(chlorodifluoromethyl)-5-(2-furanyl)pyrazolo[1,5-a]pyrimidin-2-yl]carbonyl]amino]-1-phenyl-1H-pyrazole-4-carboxylic acid, ethyl ester
MF:	$C_{24}H_{17}ClF_2N_6O_4$
FW:	526.9
Purity:	≥95%
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

Mycro 3 is supplied as a solid. A stock solution may be made by dissolving the mycro 3 in the solvent of choice, which should be purged with an inert gas. Mycro 3 is soluble in DMSO.

Description

Mycro 3 is an inhibitor of the protein-protein interaction between c-Myc and c-Myc associated protein (Max; IC_{50} = 40 µM).[1] It is also an inhibitor of Max dimerization (IC_{50} = 88 µM). Mycro 3 selectively reduces the viability of c-Myc-expressing TGR-1 fibroblasts over c-Myc-null HO15.19 fibroblasts (IC_{50}s = 0.25 and 9 µM, respectively).[2] It decreases tumor weight in PANC-1 and MIA PaCa-2 pancreatic cancer mouse xenograft models when administered at a dose of 100 mg/kg per day. Mycro 3 (5 mg/kg every three days), in combination with docetaxel (Item No. 11637) or abiraterone (Item No. 9002768), reduces tumor volume and improves survival in an LNCaP prostate cancer mouse xenograft model.[3]

References

1. Kiessling, A., Wiesinger, R., Sperl, B., *et al.* Selective inhibition of c-Myc/Max dimerization by a pyrazolo[1,5-*a*]pyrimidine. *ChemMedChem* **2(5)**, 627-630 (2007).
2. Stellas, D., Szabolcs, M., Koul, S., *et al.* Therapeutic effects of an anti-Myc drug on mouse pancreatic cancer. *J. Natl. Cancer Inst.* **106(12)**, dju320 (2014).
3. Li, F., Zhao, Z., Zhang, Z., *et al.* Tryptophan metabolism induced by TDO2 promotes prostatic cancer chemotherapy resistance in a AhR/c-Myc dependent manner. *BMC Cancer* **21(1)**, 1112 (2021).

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