



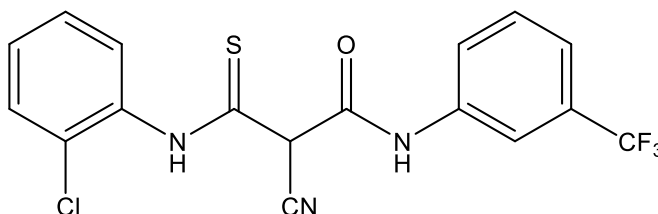
Catalog # 10-4898

MKV3

CAS# 169120-56-3

3-[(2-Chlorophenyl)amino]-2-cyano-3-thioxo-N-[3-(trifluoromethyl)phenyl]propanamide

Lot # FBA11064



MKV3 is a first-in-class inhibitor of Cu^+ -ATPases with broad-spectrum activity across bacteria, fungi, plants, and animals.¹ In mammalian cells it blocked copper-stimulated ATP7A trafficking, increased copper burden, sensitized cells to copper toxicity, and triggered cuproptosis. It has also been reported to be an allosteric MIF inhibitor.²

- 1) Shanbhag *et. al.* (2026), *A broad-spectrum inhibitor of copper-exporting P_{1B}-type ATPases*; Proc. Natl. Acad. Sci. USA, **123** e2604078123
- 2) Pantouris *et. al.* (2025), *Inhibition of MIF with an Allosteric Inhibitor Triggers Cell Cycle Arrest in Acute Myeloid Leukemia*; ACS Omega, **10** 17441

PHYSICAL DATA

Molecular Weight:	397.80
Molecular Formula:	$\text{C}_{17}\text{H}_{11}\text{ClF}_3\text{N}_3\text{OS}$
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (>60 mg/ml)
Physical Description:	Pale yellow solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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