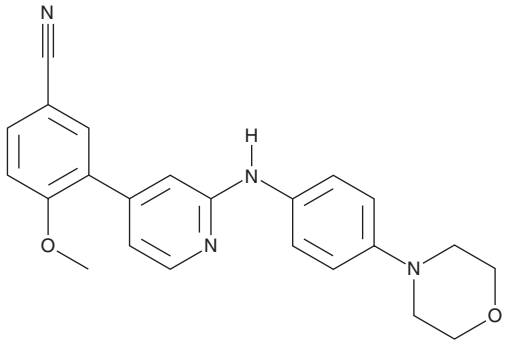
PRODUCT INFORMATION

TNIK-IN-7

Item No. 46761

CAS Registry No.:	1417795-24-4
Formal Name:	4-methoxy-3-[2-[[4-(4-morpholinyl)phenyl]amino]-4-pyridinyl]-benzonitrile
Synonyms:	THIK Inhibitor 7, TRAF2- and NCK-interacting Kinase Inhibitor 7
MF:	$C_{23}H_{22}N_4O_2$
FW:	386.5
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

TNIK-IN-7 is supplied as a solid. A stock solution may be made by dissolving the TNIK-IN-7 in the solvent of choice, which should be purged with an inert gas. TNIK-IN-7 is sparingly soluble (1-10 mg/ml) in DMSO.

Description

TNIK-IN-7 is an inhibitor of TRAF2- and NCK-interacting kinase (TNIK; IC_{50} = 11 nM).[1] It reduces TNIK levels in LPS-injured HL-1 mouse cardiomyocytes as a model of sepsis-induced cardiomyopathy.[2] TNIK-IN-7 (25-100 nM) decreases the levels of reactive oxygen species (ROS) and the mRNA expression of genes encoding NOD-like receptor protein 3 (NLRP3), IL-1β, IL-6, and TNF-α in the same model.

References

1. Ho, K.K., Parnell, K.M., Yuan, Y., *et al.* Discovery of 4-phenyl-2-phenylaminopyridine based TNIK inhibitors. *Bioorg. Med. Chem. Lett.* **23(2)**, 569-573 (2012).
2. Yang, W., Zhao, A., Lei, W., *et al.* Pleiotropic role of TNIK in sepsis-induced cardiomyopathy. *J. Cell Physiol.* **240(4)**, e70027 (2025).

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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