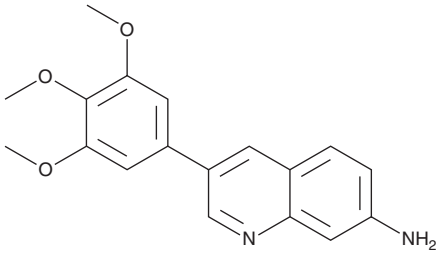
PRODUCT INFORMATION

NQO2-IN-1

Item No. 46486

CAS Registry No.:	2920687-14-3
Formal Name:	3-(3,4,5-trimethoxyphenyl)-7-quinolinamine
Synonyms:	NRH:quinone, Oxidoreductase 2-IN-1, NRH:quinone Oxidoreductase 2 Inhibitor 1
MF:	$C_{18}H_{18}N_2O_3$
FW:	310.4
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

NQO2-IN-1 is supplied as a solid. A stock solution may be made by dissolving the NQO2-IN-1 in the solvent of choice, which should be purged with an inert gas. NQO2-IN-1 is sparingly soluble (1-10 mg/ml) in DMSO.

Description

NQO2-IN-1 is an inhibitor of NRH:quinone oxidoreductase 2 (NQO2; IC_{50} = 95 nM).[1] It sensitizes TRAIL-resistant A549 non-small cell lung cancer (NSCLC) cells to TRAIL-induced apoptosis at 40 µM but is not cytotoxic to A549 cells at 10 µM or BEAS-2B lung epithelial cells at 100 µM. NQO2-IN-1 (40 µM) induces the production of reactive oxygen species (ROS) and increases the levels of death receptor 5 (DR5) in A549 cells.

Reference

1. Qi, S.J., Liu, K.X., Liu, H.Y., *et al.* Discovery of potent quinone oxidoreductase 2 inhibitors to overcome TRAIL resistance of non-small cell lung cancer. *Eur. J. Med. Chem.* **288**, 117382 (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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