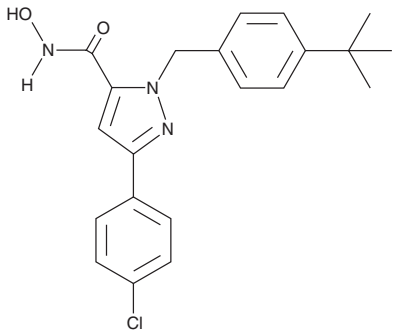
PRODUCT INFORMATION

Nrf2-IN-1

Item No. 46392

CAS Registry No.:	1610022-76-8
Formal Name:	3-(4-chlorophenyl)-1-[[4-(1,1-dimethylethyl)phenyl] methyl]-N-hydroxy-1H-pyrazole-5-carboxamide
Synonyms:	Nrf2 Inhibitor 1, Nuclear Factor Erythroid 2-related factor 2-IN-1, Nuclear Factor Erythroid 2-related factor 2 Inhibitor 1
MF:	$C_{21}H_{22}ClN_3O_2$
FW:	383.9
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

Nrf2-IN-1 is supplied as a solid. A stock solution may be made by dissolving the Nrf2-IN-1 in the solvent of choice, which should be purged with an inert gas. Nrf2-IN-1 is soluble (≥10 mg/ml) in DMSO and sparingly soluble (1-10 mg/ml) in ethanol.

Description

Nrf2-IN-1 is an inhibitor of nuclear factor erythroid 2-related factor 2 (Nrf2).[1] It inhibits Nrf2 transcriptional activity in a reporter assay using HeLa cells at 5 and 10 µM and reduces the expression of the Nrf2 target genes heme oxygenase-1 (HO-1) and glutamate-cysteine ligase modifier subunit (GCLM) in the same cells. Nrf2-IN-1 (10 µM) reduces Nrf2 protein levels in THP-1, HL-60, and U937 leukemia cells. It also reduces the growth of THP-1, HL-60, and U937 cells (IC_{50}s = 5.33, 8.94, and 8.98 µM, respectively) and induces apoptosis in the same cells. Nrf2-IN-1 inhibits angiogenesis in a chorioallantoic membrane (CAM) assay.

Reference

1. Zhang, J., Su, L., Ye, Q., *et al.* Discovery of a novel Nrf2 inhibitor that induces apoptosis of human acute myeloid leukemia cells. *Oncotarget* **8(5),** 7625-7636 (2017).

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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