



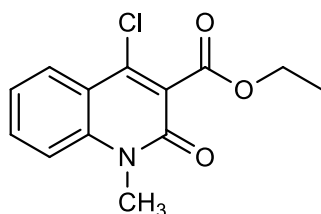
Catalog # 10-1471

AI-1

75483-04-4

4-Chloro-1,2-dihydro-1-methyl-2-oxo-3-quinolinecarboxylic acid ethyl ester

Lot # X105925



A novel antioxidant response element (ARE) activator which activates Nrf2 by covalently modifying Keap1 (Kelch-like ECH-associated protein 1) a negative regulator of Nrf2. Modification of Cys151 of Keap1 by AI-1 disrupts the ability of Keap1 to serve as an adaptor for Cul3-Keap1 ubiquitin ligase complex, thereby stabilizing and inducing transcriptional activation of Nrf2. A useful pharmacological tool for probing the involvement of Nrf2 in cellular physiology¹. Cell permeable.

1) Hur et al. (2010), *A small-molecule inducer of the antioxidant response element*; Chem. Biol., **17** 537

PHYSICAL DATA

Molecular Weight:	265.70
Molecular Formula:	C ₁₃ H ₁₂ ClNO ₃
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 15 mg/ml)
Physical Description:	Off-white 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.

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