

Product Data Sheet

Product Name: AI-1
Cat. No.: GB40096

Chemical Properties

Cas. No. 75483-04-4

Formula $C_{13}H_{12}ClNO_3$ M.Wt 265.7

Solubility Storage

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

AI-1 (75483-04-4) is 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. AI-1 is a useful pharmacological tool for probing the involvement of Nrf2 in cellular physiology. Cell permeable.

Caution: Product has not been fully validated for medical applications. For research use only.

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