

AI-3, ARE activator

Catalog	Unit
TBI1497-5MG	5 mg
TBI1497-25MG	25 mg

Product Details

Formal Name: 1-Chloro-6,7-dihydro-6,6-dimethyl-3-(methylsulfonyl)-benzo[c]thiophen-4(5H)-one

Molecular Formula: C₁₁H₁₃ClO₃S₂

Formula Weight: 292.81

CAS Number: 882288-28-0

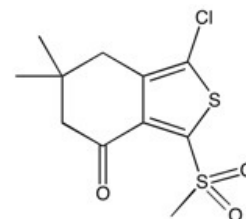
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 50 mg/ml) or in Ethanol (up to 25 mg/ml).

Storage: -20°C

Stability: ≥ 2 years.



Applications

ARE activator

Functions

Activator of antioxidant response element (ARE) which induces cytoprotective genes in human cells. It alkylates Keap1 at Cys151 and is reactive toward additional cysteines at higher concentrations. Disrupts Nrf2/Keap1 and Keap1/Cul3 interactions and stabilizes Nrf2. Activates ARE in an Nrf2 and PI 3-kinase dependent manner. Cell permeable and active in vivo.

Application Procedures

First dissolved in DMSO (up to 50 mg/ml) or in Ethanol (up to 25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20° for up to 1 month.

For research use only.