

Aldometanib, Aldolase inhibitor

Catalog	Unit
TBI4445-5MG	5 mg
TBI4445-25MG	25 mg

Product Details

Formal Name: 1-[(2,6-Dichlorophenyl)methyl]-3-hexadecyl-2-methylimidazol-1-ium iodide

Alternate Names: LXY-05-029

Molecular Formula: C₂₇H₄₃Cl₂IN₂

Formula Weight: 593.0

CAS Number: 2904601-67-6

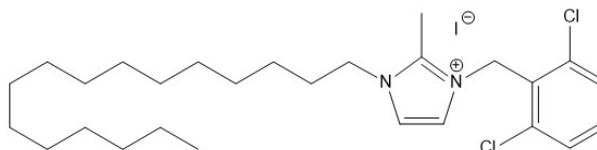
Purity: >98%

Formulation: Powder

Solubility: Soluble in DMSO (up to at least 100 mg/ml)

Storage: -20°C

Stability: ≥ 2 years.



Applications

Aldolase inhibitor

Functions

Inhibits (IC₅₀ = 50 μM) aldolase by blocking its binding with fructose-1,6-bisphosphate (FBP). It activates lysosomal AMPK and mimics a cellular state of glucose starvation. Aldometanib alleviated fatty liver and nonalcoholic steatohepatitis in mice and extended lifespan. It mitigated inflammation and oxidative stress damage in LPS-treated lung fibroblasts and also inhibited NLRP3-mediated pyroptosis. Inhibited hepatocellular carcinoma in mice in an AMPK-dependent manner. It rebalanced the tumor microenvironment allowing cytotoxic CD8⁺ T cells to infiltrate tumor cells.

Application Procedures

First dissolved in DMSO (up to at least 100 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

For research use only.