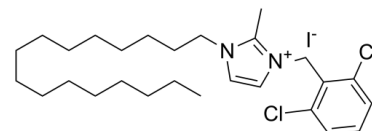


Data Sheet

Product Name:	Aldometanib
Cat. No.:	CS-0615373
CAS No.:	2904601-67-6
Molecular Formula:	C ₂₇ H ₄₃ Cl ₂ IN ₂
Molecular Weight:	593.45
Target:	AMPK
Pathway:	Epigenetics; PI3K/Akt/mTOR
Solubility:	DMSO : ≥ 100 mg/mL



BIOLOGICAL ACTIVITY:

Aldometanib (LXY-05-029) is an orally active **aldolase** inhibitor. Aldometanib can activate lysosomal adenosine monophosphate-activated protein kinase (AMPK) and decreases blood glucose. Aldometanib can be used for the research of metabolic homeostasis [1]. *In Vitro*: Aldometanib (0-1000 nM; 2 h) activates AMPK by preventing aldolase from binding to FBP to engender a pseudo-starvation signal[1].

In Vivo: Aldometanib (oral; 0-10 mpk) reduces blood glucose in lean mice[1].

Aldometanib (oral; 2-10 mpk; twice daily; for a week) reduces blood glucose and alleviates fatty liver in obese hyperglycaemic mice[1].

Aldometanib alleviates fatty liver and nonalcoholic steatohepatitis[1].

Aldometanib (oral; 2mpk; twice-daily; for a month) alleviates liver fibrosis in NASH mice[1].

Aldometanib (oral; 0-50 µM; 0-50 days) extends lifespan in *C. elegans* via the lysosomal pathway[1].

References:

[1]. Chen-Song Zhang, et al. The aldolase inhibitor aldometanib mimics glucose starvation to activate lysosomal AMPK. Nat Metab. 2022 Oct 10.

CAIndexNames:

3-(2,6-Dichlorobenzyl)-1-hexadecyl-2-methyl-1H-imidazol-3-ium iodide

SMILES:

CCCCCCCCCCCCCN1C=C[N+](CC2=C(Cl)C=CC=C2Cl)=C1C.[I-]

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

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