Aldometanib

®

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Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-148189 2904601-67-6 C ₂₇ H ₄₃ Cl ₂ IN ₂ 593.45 AMPK Epigenetics; PI3K/Akt/mTOR 4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	
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SOLVENT & SOLUBILITY

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutior	1 mM	1.6851 mL	8.4253 mL	16.8506 mL
	5 mM	0.3370 mL	1.6851 mL	3.3701 mL
	10 mM	0.1685 mL	0.8425 mL	1.6851 mL

BIOLOGICAL ACTIV	ИТҮ	
Description		e) is an orally active aldolase inhibitor. Aldometanib can activate lysosomal adenosine ed protein kinase (AMPK) and decreases blood glucose. Aldometanib can be used for the research of].
In Vitro	signal ^[1] . MCE has not independen Western Blot Analysis ^[1] Cell Line:	 3 h) activates AMPK by preventing aldolase from binding to FBP to engender a pseudo-starvation tly confirmed the accuracy of these methods. They are for reference only. Mouse primary hepatocytes, MEFs cells 0.1000 mM
	Concentration: Incubation Time: Result:	0-1000 nM 2 h Activated AMPK in mouse embryonic fibroblasts (MEFs) and mouse primary hepatocytes cells.

Product Data Sheet

Immunofluorescence ^[1]	
Cell Line:	MEFs cells
Concentration:	5 nM
Incubation Time:	2 h
Result:	Inhibited TRPVs and induces AXIN lysosomal translocation.

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].

 $? Aldometanib alleviates fatty liver and nonalcoholic steatohepatitis \cite{11}\ci$

 $? Aldometanib \ (oral; 2mpk; twice-daily; for a month) \ alleviates \ liver \ fibrosis \ in \ NASH \ mice^{[1]}.$

?Aldometanib (oral; 0-50 μ M; 0-50 days) extends lifespan in C. elegans via the lysosomal pathway^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Lean mice ^[1]
Dosage:	0-10 mpk
Administration:	Oral
Result:	Decreased fasting blood glucose and improved glucose tolerance, promoted muscular TBC1D1 phosphorylation and glucose uptake.

Animal Model:	Obese hyperglycaemic mice ^[1]
Dosage:	2-10 mpk
Administration:	Oral, twice daily, for a week
Result:	Decreased blood glucose, lowered blood glucose in a muscular AMPK-dependent manner reduced hepatic TAG, improved insulin sensitivity, increased glucose disposal rates, inhibited TAG synthesis in liver and primary hepatocytes, decreased fat mass.

Animal Model:	NASH mice ^[1]
Dosage:	2 mpk
Administration:	Oral, twice-daily, for a month
Result:	Decreased histological scores used to describe the features of NASH, reduced apoptosis rate of hepatic cells, inhibited inflammatory responses in the liver of NASH mice and improved glucose tolerance of NASH mice.

Animal Model:	C. elegans ^[1]
Dosage:	0-50 μΜ
Administration:	Oral, 0-50 days
Result:	Promoted oxidative stress resistance and mitochondrial functions in C. elegans.

Animal Model:	C57BL/6 mice ^[1]
Dosage:	100 μg/mL
Administration:	Oral
Result:	Extended lifespan, elevated NAD [⊠] levels and mitochondrial oxidative respiration, rejuvenated muscle function in aged mice.

CUSTOMER VALIDATION

• Life Metabolism. 2023 Mar 1.

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REFERENCES

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

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

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