

(-)-Myrtenal

Chemical Properties

CAS No. :	18486-69-6
Formula:	C ₁₀ H ₁₄ O
Molecular Weight:	150.22
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	(-)-Myrtenal ameliorates hyperglycemia by enhancing GLUT2 through Akt in the skeletal muscle and liver of diabetic rats.
Targets(IC50)	Others,Akt
In vivo	Diabetic rats were administered myrtenal (80 mg/kg bw) for a period of 28 days. Diabetic rats showed an increased the levels of plasma glucose, decreased the levels of plasma insulin, down-regulation of insulin receptor substrate 2 (IRS2), Akt and glucose transporter 2 (GLUT2) in liver and insulin receptor substrate 2 (IRS2), Akt and glucose transporter 4 (GLUT4) protein expression in skeletal muscle[1].

Solubility Information

Solubility	DMSO: 30 mg/mL (199.71 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (13.31 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.6569 mL	33.2845 mL	66.569 mL
5 mM	1.3314 mL	6.6569 mL	13.3138 mL
10 mM	0.6657 mL	3.3285 mL	6.6569 mL
50 mM	0.1331 mL	0.6657 mL	1.3314 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Rathinam A , Pari L . Myrtenal ameliorates hyperglycemia by enhancing GLUT2 through Akt in the skeletal muscle and liver of diabetic rats[J]. *Chemico-Biological Interactions*, 2016:S0009279716302836.

Rathinam A , Pari L , Venkatesan M , et al. Myrtenal attenuates oxidative stress and inflammation in a rat model of streptozotocin-induced diabetes[J].

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481