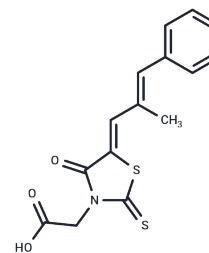


## Epalrestat

## Chemical Properties

CAS No. :	82159-09-9
Formula:	C <sub>15</sub> H <sub>13</sub> NO <sub>3</sub> S <sub>2</sub>
Molecular Weight:	319.4
Storage:	Keep away from direct sunlight, Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Epalrestat (ONO2235), an aldose reductase inhibitor, is well tolerated in Long-term therapy. It can effectually ameliorate the associated symptoms of diabetic neuropathy and delay the progression of the disease, particularly in patients with limited microangiopathy and good glycemic control.
Targets(IC50)	Reductase

## Solubility Information

Solubility	DMSO: 23.18 mg/mL (72.57 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 0.5 mg/mL (1.57 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

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	1mg	5mg	10mg
1 mM	3.1309 mL	15.6544 mL	31.3087 mL
5 mM	0.6262 mL	3.1309 mL	6.2617 mL
10 mM	0.3131 mL	1.5654 mL	3.1309 mL
50 mM	0.0626 mL	0.3131 mL	0.6262 mL

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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

Ramirez MA, et al. Pharmacotherapy. 2008 May; 28(5):646-55.

Xiao P, Hu Z, Lang J, et al. Mannose metabolism normalizes gut homeostasis by blocking the TNF- $\alpha$ -mediated proinflammatory circuit. Cellular & Molecular Immunology. 2022: 1-12.

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