



Catalog # 10-4423

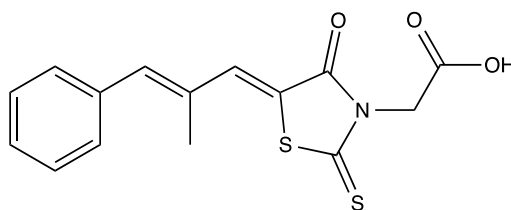
Epalrestat

ONO-2235

CAS# 82159-09-9

2-[(5Z)-5-[(E)-3-phenyl-2-methylprop-2-enylidene]-4-oxo-2-thioxo-3-thiazolidinyl]acetic acid

Lot # FBA1101



Epalrestat is an aldose reductase inhibitor (IC_{50} = 10 nM (rat lens) and 25 nM (human placenta)).^{1,2} It reduces sorbitol accumulation in the sciatic nerve, erythrocytes and ocular tissue. May be used to prevent or slow the progression of diabetic neuropathy.³

- 1) Kikkawa *et al.* (1983) *Effect of a new aldose reductase inhibitor, (E)-3-carboxymethyl-5-[(2E)-methyl-3-phenylpropenylidene]rhodanine (ONO-2235), on peripheral nerve disorders in streptozotocin diabetic rats* *Diabetologica* **24** 290
- 2) Terashima *et al.* (1984) *Effects of a new aldose reductase inhibitor on various tissues in vitro.* *J.Pharmacol.Exp.Ther.* **229** 226
- 3) Ramirez and Borja (2008) *Epalrestat: an aldose reductase inhibitor for the treatment of diabetic neuropathy* *Pharmacotherapy* **28** 646

PHYSICAL DATA

| | |
|------------------------|---|
| Molecular Weight: | 319.40 |
| Molecular Formula: | $C_{15}H_{13}NO_3S_2$ |
| Purity: | >98% (TLC: 5% Methanol/methylene chloride + 0.5% HOAc; R_f = 0.21) |
| Solubility: | DMSO (5 mg/ml) |
| Physical Description: | Yellow solid |
| Storage and Stability: | Store as supplied at -20° for up to one year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 2 months |

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