
Product Data Sheet

Product Name: (±)-WS75624B

Cat. No.: GC32617

Chemical Properties

Cas. No. 188048-45-5

SMILES O=C(C1=NC(C2=CSC(CCCCCC(O)C)=N2)=C(OC)C(OC)=C1)OFormula $C_{18}H_{24}N_2O_5S$ M.Wt 380.46

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure **Protocol****Animal experiment:**

Rats[1] Male Sprague-Dawley rats (250-300 g) are anesthetized with Pentobarbital sodium (50 mg/kg of body weight). A femoral artery catheter is implanted for monitoring arterial pressure and heart rate, and a femoral vein catheter is used for injection of saline or drugs. Blood pressure and heart rate is recorded from the femoral artery through a cannula (PE-50) connected to a pressure transducer coupled to a Biophysigraph RM 6000 system. Two groups of rats are injected with the following: Big ET-1 (1 nmol/kg) alone (n=7), big ET-1 (1 nmol/kg) with (±)-WS75624B (30 mg/kg) iv bolus injection (n=7).

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

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References:

[1]. Tsurumi Y, et al.
WS75624 A and B, new
endothelin converting
enzyme inhibitors isolated
from *Saccharothrix* sp.
No. 75624. I. Taxonomy,
fermentation, isolation,
physico-chemical
properties and biological
activities. *J Antibiot*
(Tokyo). 1995
Oct;48(10):1066-72.

Background

(±)-WS75624B is an endothelin converting enzyme (ECE) inhibitor with an IC₅₀ of 0.03 µg/mL.

Endothelin converting enzyme (ECE) inhibitors, WS75624A and (±)-WS75624B, have been isolated from the fermentation broth of *Saccharothrix* sp. No. 75624. WS75624A and (±)-WS75624B show highly potent ECE inhibitory activity, and both have IC₅₀s of 0.03 µg/mL. WS75624A and (±)-WS75624B also show other metalloprotease (collagenase and neutral endopeptidase) inhibitory activity with IC₅₀ s of 1 µg/mL. (±)-WS75624B markedly inhibits ECE activity with an IC₅₀ value of 0.03 µg/mL, while it weakly inhibit collagenase and NEP activities with IC₅₀s of 1.0 µg/mL and 1.25 µg/mL, respectively[1].

(±)-WS75624B inhibits big endothelin-induced pressor effect when administered to SD rat intravenously with big ET-1. WS75624 B (30 mg/kg) markedly attenuates the hypertensive effect of big ET-1 (1 nmol/kg,iv) the inhibiting the conversion of big ET-1 to ET-1[1].

[1]. Tsurumi Y, et al. WS75624 A and B, new endothelin converting enzyme inhibitors

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isolated from *Saccharothrix* sp. No. 75624. I. Taxonomy, fermentation, isolation, physico-chemical properties and biological activities. *J Antibiot (Tokyo)*. 1995 Oct;48(10):1066-72.

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