
Product Data Sheet

Product Name: ONO4057 (ONO-LB457)

Cat. No.: GC32011

Chemical Properties

Cas. No. 134578-96-4

SMILES O=C(O)CCC1=C(OCCCC/C=C/C2=CC=C(OC)C=C2)C=CC=C1OCCCCC(O)=OFormula $C_{27}H_{34}O_7$ M.Wt 470.55

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:**

Inbred male ACI (180 to 210 g) and LEW (200 to 240 g) rats are used as donors and recipients. Liver transplantation is orthotopically performed. ONO4057 dissolved in 7% NaHCO₃ or solvent is administered subcutaneously daily after transplantation. Animals are divided into two groups: group I (n=5), 7% NaHCO₃ 3 mL/kg as controls; group II (n=6), ONO4057 30 mg/kg per day[2].

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

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References:

[1]. Kishikawa K, et al.
ONO-4057, a novel, orally
active leukotriene B4
antagonist: effects on
LTB4-induced neutrophil
functions. Prostaglandins.
1992 Oct;44(4):261-75.

[2]. Tanaka M, et al. Effect
of leukotriene B(4)
receptor antagonist
(ONO4057) on hepatic
allografting in rats.
Transplant Proc. 2000
Nov;32(7):2340.

Background

ONO4057 is a Leukotriene B4 receptor antagonist, with an IC50 of $0.7 \pm 0.3 \mu\text{M}$.

Mean animal survivals of the ONO4057-treated animals significantly prolong to 21.0 ± 4.4 days compare with 12.0 ± 0.6 days in control group. Histological findings from grafts taken on day 7 show that severe focal cellular infiltration is observed in both groups, but the degree of hepatocyte necrosis in ONO4057-treated animals is milder than that in control group[2].

[1]. Kishikawa K, et al. ONO-4057, a novel, orally active leukotriene B4 antagonist: effects on LTB4-induced neutrophil functions. Prostaglandins. 1992 Oct;44(4):261-75.

[2]. Tanaka M, et al. Effect of leukotriene B(4) receptor antagonist (ONO4057) on hepatic allografting in rats. Transplant Proc. 2000 Nov;32(7):2340.

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