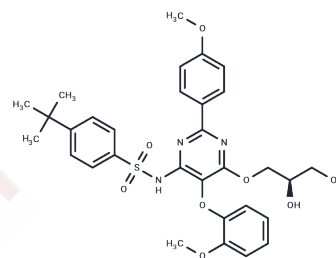


RO 46-8443

## Chemical Properties

CAS No. : 175556-12-4  
 Formula: C<sub>31</sub>H<sub>35</sub>N<sub>3</sub>O<sub>8</sub>S  
 Molecular Weight: 609.69  
 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	RO 46-8443 is the first non-peptide endothelin ETB receptor selective antagonist. RO 46-8443 displays up to 2000-fold selectivity for ETB receptors both in terms of binding inhibitory potency and functional inhibition.
Targets(IC50)	Endothelin Receptor

## Solubility Information

Solubility	DMSO: 55 mg/mL (90.21 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 (3.28 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	1.6402 mL	8.2009 mL	16.4018 mL
5 mM	0.328 mL	1.6402 mL	3.2804 mL
10 mM	0.164 mL	0.8201 mL	1.6402 mL
50 mM	0.0328 mL	0.164 mL	0.328 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

Guimarães CL, Trentin PG, Rae GA. Endothelin ET(B) receptor-mediated mechanisms involved in oleic acid-induced acute lung injury in mice. *Clin Sci (Lond)*. 2002 Aug;103 Suppl 48:340S-344S.

Parent R, Lavallée M. Endothelin-dependent effects limit flow-induced dilation of conductance coronary vessels after blockade of nitric oxide formation in conscious dogs. *Cardiovasc Res*. 2000 Jan 14;45(2):470-7.

Thorin E, Parent R, Ming Z, Lavallée M. Contribution of endogenous endothelin to large epicardial coronary artery tone in dogs and humans. *Am J Physiol*. 1999 Aug;277(2 Pt 2):H524-32.

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