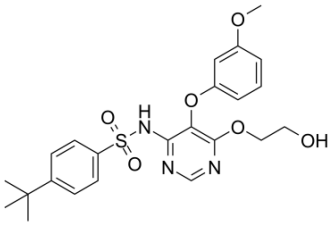
Ro 46-2005

Cat. No.:	HY-19529
CAS No.:	150725-87-4
Molecular Formula:	$C_{23}H_{27}N_3O_6S$
Molecular Weight:	473.54
Target:	Endothelin Receptor
Pathway:	GPCR/G Protein
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 28 mg/mL (59.13 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.1118 mL	10.5588 mL	21.1175 mL
5 mM	0.4224 mL	2.1118 mL	4.2235 mL
10 mM	0.2112 mL	1.0559 mL	2.1118 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Ro 46-2005 is a novel synthetic non-peptide endothelin receptor antagonist, inhibits the specific binding of 125I-ET-1 to human vascular smooth muscle cells (ETA receptor) with IC50 of 220 nM.IC50 value: 220 nM (ETA) [2]Target: Endothelinin vitro: Ro 46-2005 proves to be equipotent (IC50 200-500 nM) for inhibition of [125I]ET-1 binding on the two known ET receptor subtypes (ETA and ETB). Ro 46-2005 also inhibits the functional consequences of ET-1 stimulation: the ET-l-induced release of arachidonic acid from rat mesangial cells was inhibited with an IC50 of 1.8 μM.[1]

REFERENCES

[1]. Breu V, et al. In vitro characterization of Ro 46-2005, a novel synthetic non-peptide endothelin antagonist of ETA and ETBreceptors. FEBS Lett. 1993 Nov 15;334(2):210-214.

[2]. Clozel M, et al. Pathophysiological role of endothelin revealed by the first orally active endothelin receptor antagonist. Nature. 1993 Oct 21;365(6448):759-761.

[3]. N.R. Sibson, et al. MRI Determination of the Mechanisms Underlying TNF-a-induced Changes in Cerebral Blood Volume, Tissue Water Diffusion and BBB Permeability. Proc. Intl. Soc. Mag. Reson. Med. 10 (2002)

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA