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产品名称：Ro 46-2005
产品别名：Ro 46-2005

生物活性：

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: Endothelin in 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]

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

*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液；一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。

储备液的保存方式和期限：-80°C, 6 months; -20°C, 1 month。-80°C 储存时，请在 6 个月内使用，-20°C 储存时，请在 1 个月内使用。

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)