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产品名称: (+)-DHMEQ

产品别名: (1R,2R,6R)-Dehydroxymethylepoxyquinomicin;
(1R,2R,6R)-DHMEQ

生物活性:					
Description	(+)DHMEQ is an activator of antioxidant transcription factor Nrf2. (+)-DHMEQ is the enantiomer of (-)-DHMEQ. (-)-DHMEQ inhibits NF-kB than its enantiomer (+)-DHMEQ.				
IC ₅₀ & Target	Nrf2[1]				
In Vitro	(+)DHMEQ ((2R,3R,4R)-DHMEQ) activates Nrf2, which is a transcription factor that induces the expression of multiple antioxidant enzymes. (+)-DHMEQ activates Nrf2 in a promoter reporter assay (+)-DHMEQ also increases the expression of target antioxidant proteins and cancelled reactive oxygen species (ROS)-induced cell death in a neuronal cell line. ROS generating 6-hydroxydopamine hydrochloride (6-OHDA) induces the death of SK-N-SH cells, and (+)-DHMEQ decreases the cytotoxic effect of 6-OHDA, whereas its effect is weaker in Nrf2-knockdown cells prepared with siRNA. Thus, enhancement of the neural cell viability by (+)-DHMEQ is due to the activation of Nrf2[1].				
Solvent&Solubility	<i>In Vitro:</i> DMSO : ≥ 35 mg/mL (133.98 mM) * "≥" means soluble, but saturation unknown.				
	Preparing Stock Solutions	Solvent Concentration Mass	1 mg	5 mg	10 mg
		1 mM	3.8280 mL	19.1402 mL	38.2804 mL
		5 mM	0.7656 mL	3.8280 mL	7.6561 mL
		10 mM	0.3828 mL	1.9140 mL	3.8280 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℃，6 months；-20℃，1 month。 -80℃ 储存时，请在 6 个月内使用，-20℃ 储存时，请在 1 个月内使用。				
References	[1]. Niitsu Y, et al. Chemoenzymatic synthesis of (2R,3R,4R)-dehydroxymethylepoxyquinomicin (DHMEQ), a newactivator of antioxidant transcription factor Nrf2. Org Biomol Chem. 2011 Jun 21;9(12):4635-41.				
实验参考:					
Cell Assay	SK-N-SH cells are seeded at 1.75×10 ⁴ cells/well in a 24-well plate and cultured overnight. The cells are treated with various concentrations of (+)-DHMEQ (1, 3, and 10 µg/mL) for 24 h and subsequently treated with 300 µM 6-OHDA for 24 h. Then, cells are stained with Trypan blue, and the number of stained cells is counted[1].				
References	[1]. Niitsu Y, et al. Chemoenzymatic synthesis of (2R,3R,4R)-dehydroxymethylepoxyquinomicin (DHMEQ), a newactivator of antioxidant transcription factor Nrf2. Org Biomol Chem. 2011 Jun 21;9(12):4635-41.				