
5-Hydroxy-1-methylhydantoin

产品编号: D52261

CAS: 84210-26-4

分子式: C₄H₆N₂O₂

纯度: 99.5%

InChi Key: InChiKey=RHYBFKMFHLPQPH-UHFFFAOYSA-N

Smiles: O=C1NC(CN1C)=O

外观: 固体粉末

作用通路: GPCR/G Protein

作用靶点: Bradykinin Receptor

溶解性: DMSO: 60 mg/ml (525.85 mM)

保存条件: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

产品介绍: NZ-419 is an antioxidant potentially for the treatment of renal failure. A creatinine metabolite, NZ-419, a hydroxyl radical scavenger, has previously been shown to confer renoprotection by inhibiting the progression of chronic kidney disease in rats. NZ-419 a novel anti-oxidant drug completely suppressed the expression of B2-kinin receptors (B2KR) in response to high glucose (25 mM) stimulation in VSMC and was also shown to attenuate the effects of BK on VSMC remodeling. NZ-419 inhibited the BK-induced increase in MAPK phosphorylation and attenuated the increase in connective tissue growth factor (CTGF) protein levels in VSMC. These findings suggest that NZ-419 may confer vascular protection against high glucose concentrations and BK-stimulation to ameliorate vascular injury and remodeling through its anti-oxidant properties.