

DMOG

货号: D0851

储存条件: 粉末-20°C可保存3年; 液体-80°C可保存12月。

产品描述

The family of HIF-PH (HIF prolyl hydroxylase) enzymes are the main molecular to regulate HIF activity through hydroxylation at 2 proline residues and cause the degradation of HIF, thus leading to inhibition on accumulation of functional HIF under normoxia. DMOG (Dimethyloxalyglycine) is a prolyl 4-hydroxylase inhibitor with IC50 value of 2 μ M (measured by hydroxyproline formation in chicken embryo calvaria) . HIF-1 α is strongly induced in Hep3B and U2OS cells exposure to 100 μ M or 1000 μ M DMOG for 6h under normoxic culture conditions. Administration to newborn pups by i.p. injections at a dose of 200 mg/kg DMOG conferred a protective phenotype in the retinopathy of prematurity (ROP) model.

作用机制

DMOG, an analog to 2OG, can inhibit prolyl 4-hydroxylase in a competitive manner. It is the most structurally basic 2OG-derived HIF stabilizer.

产品信息

CAS号	89464-63-1	
分子式	C6H9NO5	
分子量	175.14	
别名	Dimethyloxallyl Glycine	
溶解度	DMSO	400.0 mg/mL(2283.9 mM) warming
	Water	510.0 mg/mL (2912.0 mM) warming

