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产品名称: **N,N'-二甲基-9,9'-联吡啶鎓硝酸盐**
产品别名: 光泽精; **Lucigenin; NSC-151912; L-6868**

生物活性:					
Description	Lucigenin(L-6868; NSC-151912) is a chemiluminescent probe used to indicate the presence of endogenously generated superoxide anion radicals in cells. Upon single-electron reduction of Lucigenin by a radical species the subsequent form of Lucigenin presents an amplified chemiluminescence which is measurable and can be correlated to the respective amount of reactive radical species present in the system. This approach can be used to probe the natural generation of these species as well as the natural functioning of superoxide dismutase and other enzymes responsible for scavenging radicals. In addition to indicating the presence of radicals in cells, Lucigenin shows interaction with redox-active oxidoreductase enzymes. Lucigenin is shown to mediate the reduction of cytochrome C by xanthine oxidase and to increase the rate of NADPH oxidation. These observations indicate that use of Lucigenin for superoxide analysis is precluded in the presence of high levels of NAD(P)H-oxidoreductases.				
	In Vitro: DMSO : ≥ 25 mg/mL (48.97 mM) * "≥" means soluble, but saturation unknown.				
Solvent&Solubility	Solvent / Mass / Concentration Preparing Stock Solutions	1 mg	5 mg	10 mg	
		1 mM	1.9589 mL	9.7943 mL	19.5886 mL
		5 mM	0.3918 mL	1.9589 mL	3.9177 mL
		10 mM	0.1959 mL	0.9794 mL	1.9589 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 (protect from light)。-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]. Li Y, et al. Validation of lucigenin (bis-N-methylacridinium) as a chemilumigenic probe for detecting superoxide anion radical production by enzymatic and cellular systems. J Biol Chem. 1998 Jan 23;273(4):2015-23.				
	[2]. Rost M, et al. What do we measure with luminol-, lucigenin- and penicillin-amplified chemiluminescence? 1. Investigations with hydrogen peroxide and sodium hypochlorite. J Biolumin Chemilumin. 1998 Nov-Dec;13(6):355-63.				