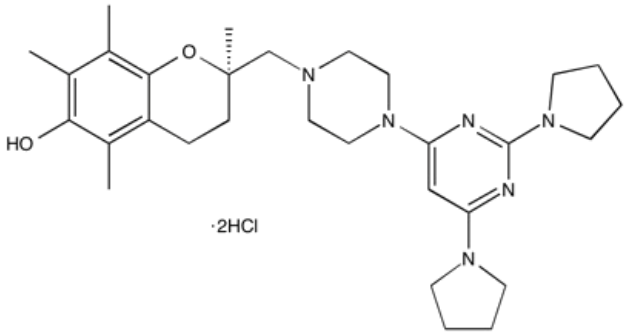
Catalog # 10-1121

U-83836E

CAS# 122003-11-6

(-)-2-((4-(2,6-Di-1-pyrrolidinyl-4-pyrimidinyl)-1-piperazinyl)methyl)-3,4-dihydro-2,5,7,8-tetramethyl-2H-1-benzopyran-6-ol dihydrochloride

Lot # X101502



A trolox-derived antioxidant lazaroid. Mitigates the toxic effects of methanol on antioxidant systems in rat brain.[1] Prevents pro-oxidant-induced death of dopaminergic neurons.[2] Improves viability of endothelial cells after H_2O_2-induced oxidative stress.[3] Improves outcome markers in a rat hemorrhagic shock model and increases expression of HSP72.[4]

1) Farbiszewski et al. (2000), *N-acetylcysteine or trolox derivative mitigate the toxic effects of methanol on the antioxidant system of rat brain*; Toxicology, **156** 47
2) Karlsson *et al*. (2002), *Comparison between survival of lazaroid-treated embryonic nigral neurons in cell suspensions, cultures and transplants*; Brain Res., **955** 268
3) Blassig *et al*. (2002), *Nitronyl nitroxides, a novel group of protective agents against oxidative stress in endothelial cells forming the blood-brain barrier*; Neuropharmacology, **43** 1006
4) Labruto *et al*. (2006), *Lazaroid U-83836E improves tolerance to hemorrhagic shock and limb ischemia and reperfusion in rats and increases cardiac heat shock protein 72*; Acad. Emerg. Med., **13** 7

PHYSICAL DATA

Molecular Weight:	593.63
Molecular Formula:	$C_{30}H_{44}N_6O_2$ 2HCl
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	Soluble in Water (up to 30 mg/ml) or in Ethanol (up to at least 50 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase.
	Solutions in distilled water or ethanol may be stored at -20°C for up to 1 month.

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