

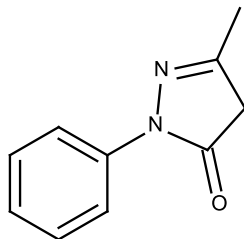
Catalog # 10-2295

MCI-186

CAS# 89-25-8

3-Methyl-1-phenyl-2-pyrazolin-5-one; Edaravone

Lot # X101703



MCI-186 is an antioxidant free radical scavenger used as a neuroprotective agent following acute brain ischemia and subsequent cerebral infarction.^{1,2} It also protects against MPTP-induced neurotoxicity in the Substantia Nigra.³

- 1) Watanabe *et al.* (1994), *Protective effects of MCI-186 on cerebral ischemia: possible involvement of free radical scavenging and antioxidant actions.* J.Pharmacol.Exp.Ther., **268** 1597
- 2) Yoshida *et al.* (2006) *Neuroprotective effects of edaravone: a novel free radical scavenger in cerebrovascular injury.* CNS Drug Reviews **12** 9
- 3) Kawasaki *et al.* (2007) *Edaravone (3-Methyl-1-phenyl-2-pyrazolin-5-one), a Radical Scavenger, Prevents 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine-induced Neurotoxicity in the Substantia Nigra but Not the Striatum.* J.Pharmacol.Exp.Ther. **322** 274

PHYSICAL DATA

Molecular Weight:	174.20
Molecular Formula:	C ₁₀ H ₁₀ N ₂ O
Purity:	>98% by TLC (10% Methanol/methylene chloride + 0.1% NH ₄ OH; R _f = 0.48) NMR: Conforms
Solubility:	DMSO (up to 20 mg/ml)
Physical Description:	Tan solid
Storage and Stability:	Store as supplied at room temperature for up to 2 years from the date of purchase. Protect from exposure to moisture. Solutions in DMSO and ethanol may be stored at -20°C for up to 3 months.

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