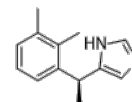


Product Name : Dexmedetomidine
Cat. No. : PC-27361
CAS No. : 113775-47-6
Molecular Formula : C₁₃H₁₆N₂
Molecular Weight : 200.29
Target : Adrenergic Receptor
Solubility : 10 mM in DMSO



Biological Activity

Dexmedetomidine is a potent, selective agonist of α_2 -adrenergic receptor (α_2 -adrenoceptor) with K_i of 1.08 nM, >1000-fold selectivity against α_1 -adrenoceptor.

Dexmedetomidine is used in veterinary medicine for its analgesic and sedative properties.

Dexmedetomidine also protects against lung injury induced by ischemia-reperfusion through inhibition of autophagy in rats.

References

Cormack JR, et al. J Clin Neurosci. 2005 May;12(4):375-8.

Luo C, et al. Front Cell Neurosci. 2017 Jul 6;11:197.

Zhang W, et al. Exp Ther Med. 2017 Aug;14(2):973-980.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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