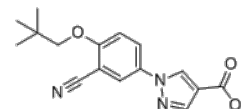


Product Name : Niraxostat
Cat. No. : PC-20359
CAS No. : 206884-98-2
Molecular Formula : C₁₆H₁₇N₃O₃
Molecular Weight : 299.33
Target : Xanthine Oxidase (XAO)
Solubility : 10 mM in DMSO



Biological Activity

Niraxostat (Y-700) is a potent, long-lasting, orally effective xanthine oxidase (XO) inhibitor with IC₅₀ of 5.8 nM, exhibits potent and long-lasting hypouricemic effect in rat model of hyperuricemia.

Niraxostat (Y-700) binds tightly both to the active sulfo-form and to the inactive desulfo-form of the enzyme with K(d) values of 0.9 and 2.8 nM, respectively.

Y-700 (1-10 mg/kg, oral) dose dependently lowered plasma urate levels in oxonate-treated rats.

Y-700 (0.3-3 mg/kg) dose dependently reduced the urinary excretion of urate and allantoin in normal rats.

References

S Ishibuchi, et al. Bioorg Med Chem Lett. 2001 Apr 9;11(7):879-82.

Fukunari A, et al. J Pharmacol Exp Ther. 2004 Nov;311(2):519-28.

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

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