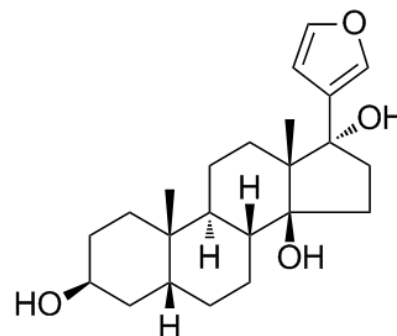


Product Name : Rostafuroxin
Cat. No. : PC-42946
CAS No. : 156722-18-8
Molecular Formula : C₂₃H₃₄O₄
Molecular Weight : 374.5137
Target : Na-K-ATPase
Solubility : 10 mM in DMSO



Biological Activity

Rostafuroxin (PST2238) is potent, selective, orally active Na-K-ATPase inhibitor, displaces 3H ouabain from dog kidney Na⁺,K⁺-ATPase with IC₅₀ of 1.5 nM; displays excellent selectivity over a panel of general and hormonal receptors, with exception of thromboxane A₂ receptor (61% inhibition at 1 μM); abolishes ouabain-dependent increase in the Na-K pump rate in cultured renal cells, abolishes the increase in blood pressure and renal Na-K ATPase activity caused by ouabain in rats model of hypertension.

Hypertension
Phase 2 Clinical

References

- Quadri L, et al. J Med Chem. 1997 May 23;40(11):1561-4.
Ferrari P, et al. J Pharmacol Exp Ther. 1998 Apr;285(1):83-94.
Goto A, et al. Hypertension. 1997 Sep;30(3 Pt 2):753-8.
Ferrari P, et al. J Pharmacol Exp Ther. 1999 Mar;288(3):1074-83.

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

E-mail: tech@probechem.com