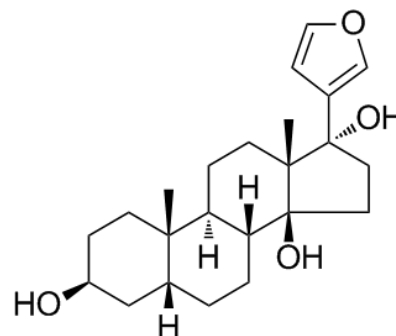


**Product Name** : Rostafuroxin  
**Cat. No.** : PC-42946  
**CAS No.** : 156722-18-8  
**Molecular Formula** : C<sub>23</sub>H<sub>34</sub>O<sub>4</sub>  
**Molecular Weight** : 374.5137  
**Target** : Na-K-ATPase  
**Solubility** : 10 mM in DMSO



### Biological Activity

Rostafuroxin (PST2238) is potent, selective, orally active **Na-K-ATPase** inhibitor, displaces 3H ouabain from dog kidney Na<sup>+</sup>,K<sup>+</sup>-ATPase with IC<sub>50</sub> of 1.5 nM.

Rostafuroxin displays excellent selectivity over a panel of general and hormonal receptors, with exception of thromboxane A<sub>2</sub> receptor (61% inhibition at 1 μM).

Rostafuroxin 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.

### References

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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