**Product Name:** Furosemide  
**CAS No.:** 54-31-9  
**Cat. No.:** HY-B0135  
**MWt:** 330.74  
**Formula:** C12H11ClN2O5S  
**Purity:** >98%  
**Solubility:** DMSO 66 mg/mL; Water <1 mg/mL

**Mechanisms:**  
Pathways: Membrane Tranporter/Ion Channel; Target: NKCC

**Biological Activity:**  
Furosemide (Lasix) is a loop diuretic inhibitor of Na⁺/2Cl⁻/K⁺ (NKCC) cotransporter of which used in the treatment of congestive heart failure and edema.  
Target: NKCC  
Furosemide (INN/BAN) or frusemide is a loop diuretic used in the treatment of congestive heart failure and edema. It is most commonly marketed by Sanofi under the brand name Lasix, and also under the brand names Fusid and Frumex. It has also been used to prevent Thoroughbred and Standardbred race horses from bleeding through the nose during races. Along with some other diuretics, furosemide is also included on the World Anti-Doping Agency’s banned drug list due to its alleged use as a masking agent for other drugs.  
Furosemide, like other loop diuretics, acts by inhibiting NKCC2, the luminal Na-K-2Cl symporter in the thick ascending limb of the loop of Henle. The action on the distal tubules is independent...

**References:**  

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*Caution: Not fully tested. For research purposes only*

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