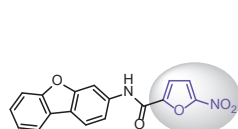


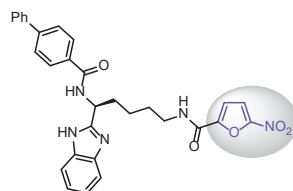
Nitrofuran Cysteine Binders

Introduction

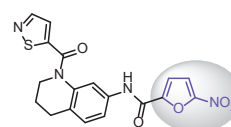
Nitrofuran has been traditionally used in antiseptic agents such as Furantoin and Nitrofurazone. A breakthrough study from 2018 identified the nitrofuran fragment as a cysteine-binding moiety for STING inhibitors,¹ thus enhancing the arsenal of cysteine-binding warheads.² The moiety acts as a compact warhead that enhances binding by orders of magnitude, forming thionitroso derivatives, and delivers an optimal balance between potency and target selectivity.^{3,4} Explore *Enamine's* collection of nitrofuran compounds for cysteine-targeting applications.



C-178
small-molecule irreversible STING antagonist
Nature **2018**, 559, 269-273



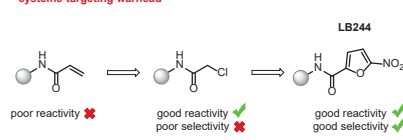
LB244
small-molecule irreversible STING antagonist
J. Am. Chem. Soc. **2023**, 145, 20273



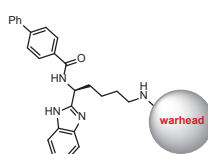
KSI-028
small-molecule irreversible STING antagonist
J. Med. Chem. **2026**, 69, 11044

Case study

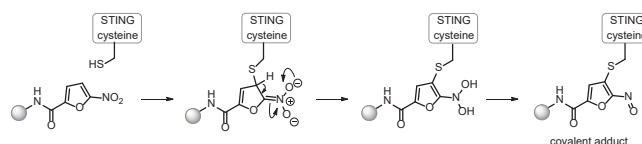
cysteine-targeting warhead



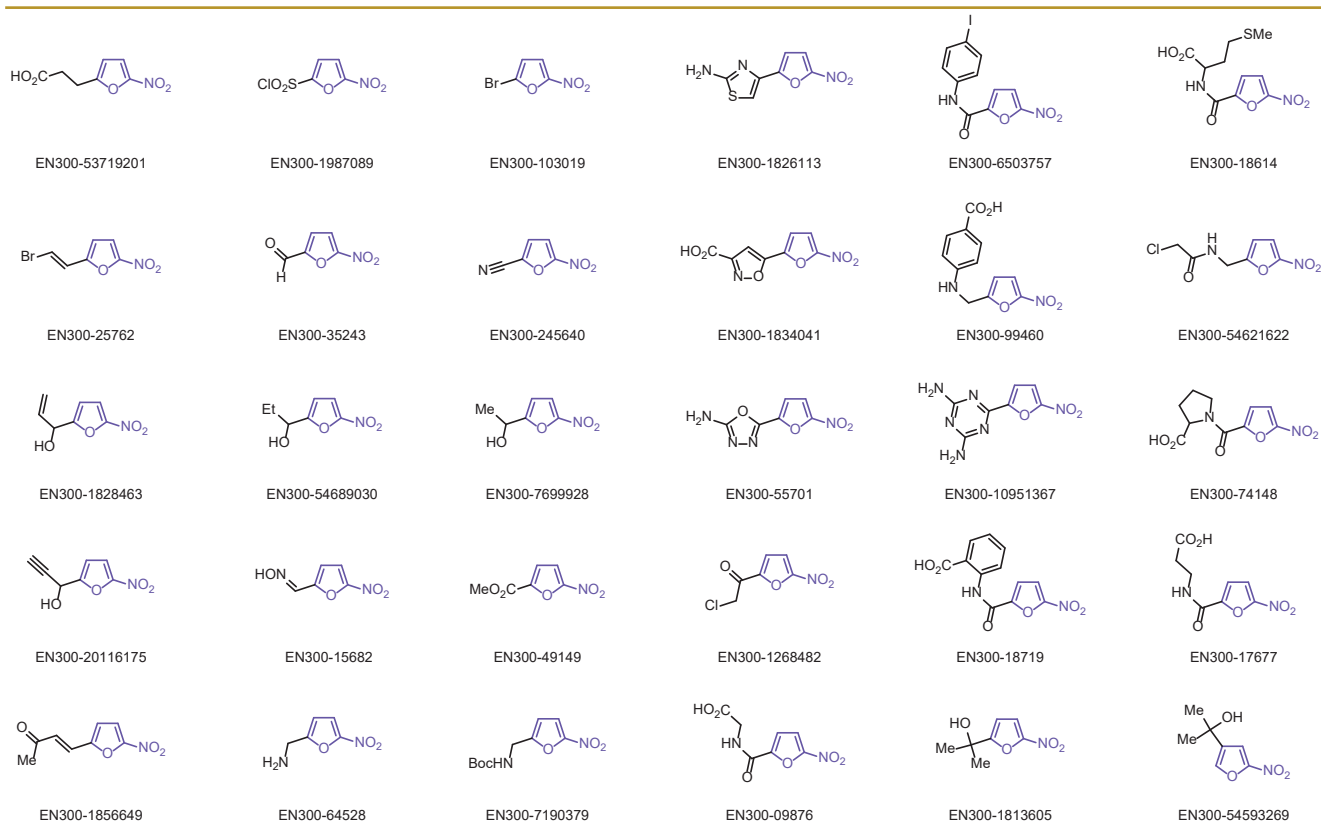
J. Am. Chem. Soc. **2023**, 145, 20273



mechanism



We offer: over 50 nitrofurans from stock on 5-10 gram scale.



References

1. F. Huang et al. *Molecules* **2022**, 27, 7728.
2. S. Haag et al. *Nature* **2018**, 559, 269.

3. L. Barasa et al. *J. Am. Chem. Soc.* **2023**, 145, 20273.
4. S. Jeong et al. *J. Med. Chem.* **2026**, 69, 11044.



Search & Buy on-line at **EnamineStore.com**
Look for more at **Chem-Space.com**

BB@enamine.net, www.enamine.net

