

## Tetrahydrobenzo[c]thieno[2,1-e]isothiazole 4-Oxides

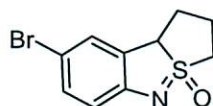
Introducing a new three-dimensional heterocycle.

A "virtual exploratory heterocyclic library" (VEHICLE) containing ~25000 mono and bicyclic ring systems was introduced by Pitt and co-workers in 2009.(1) However, below 7% of this library have been synthesized and utilized in approaches toward drug-like molecules.(2)

Increasing the numbers of available scaffolds, containing three dimensionality, stereogenic centers and saturation, is important for exploring new chemical space in medicinal and agricultural chemistry.

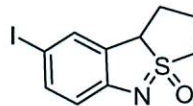
To aid research and development in this area, Apollo introduces a recently developed new range of tetrahydrobenzo[c]thieno[2,1-e]isothiazole 4-oxides.(2) These are novel compounds that can be manufactured in our UK labs up to several g scale, with further scale up possible in our group production plants. Items not in stock can be synthesised within 2-3 weeks. Below is a selection of the range, however, many more items are available. If you have any questions about these products or require further information please get in touch.

1. Pitt, W. R.; Parry, D. M.; Perry, B. G.; Groom, C. R. *J. Med. Chem.* **2009**, 52, 2952.
2. Lamers, P.; Bolm, C. *Org. Lett.* **2018**, 20, 116.



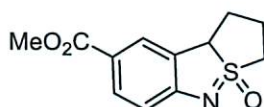
**OR55426**

8-bromo-1,2,3,9b-tetrahydrobenzo[c]thieno[2,1-e]isothiazole 4-oxide



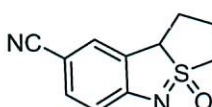
**OR55435**

8-iodo-1,2,3,9b-tetrahydrobenzo[c]thieno[2,1-e]isothiazole 4-oxide



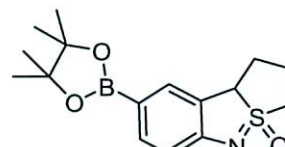
**OR55431**

methyl 1,2,3,9b-tetrahydro-4λ<sup>4</sup>-benzo[c]thieno[2,1-e]isothiazole-8-carboxylate 4-oxide



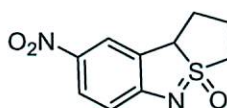
**OR55428**

1,2,3,9b-tetrahydro-4λ<sup>4</sup>-benzo[c]thieno[2,1-e]isothiazole-8-carbonitrile 4-oxide



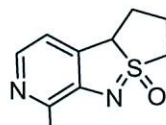
**OR55514**

8-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-1,2,3,9b-tetrahydrobenzo[c]thieno[2,1-e]isothiazole 4-oxide



**OR55437**

8-nitro-1,2,3,9b-tetrahydrobenzo[c]thieno[2,1-e]isothiazole 4-oxide



**OR55429**

1-chloro-4b,5,6,7-tetrahydrothieno[1',2':1,5]isothiazolo[3,4-c]pyridine 8-oxide