
NSC319726

产品编号: D51012

CAS: 71555-25-4

分子式: C₁₁H₁₄N₄S

纯度: ≥98%

InChi: InChI=1S/C₁₁H₁₄N₄S/c1-9(10-5-2-3-6-12-10)13-14-11(16)15-7-4-8-15/h2-3,5-6H,4,7-8H2,1H3,
(H,14,16)/b13-9+

InChi Key: XDHBUMNIQRLHGO-UKTHLTGXSA-N

Smiles: C/C(=N\NC(=S)N1CCC1)/C1C=CC=CN=1

外观: 固体粉末

作用通路: MDM-2/p53

溶解性: DMSO up to 100 mM

保存条件: Store in dry, dark place for one year.

产品介绍: NSC319726 is a potent and selective activator of mutant p53R175 (EC₅₀ ~8 nM in mutant p53 cell lines but with >100-fold selectivity in wild type cells). It has potent growth inhibitory activity in mutant p53 cells, particularly for the p53R175 mutant. Mechanistic studies revealed that NSC319726 restores WT structure and function to the p53R175 mutant. It kills p53R175H knock-in mice with extensive apoptosis and inhibits xenograft tumor growth in a 175-allele-specific mutant p53-dependent manner. This activity depends upon the zinc ion chelating properties of the compound as well as redox changes. NSC319726 is an attractive lead compound for anti-cancer drug development.