



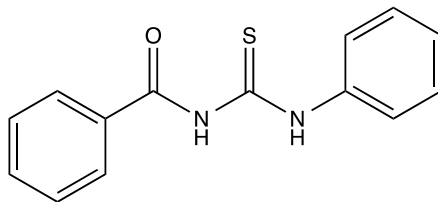
Catalog # 10-1522

TM-2-51

CAS# 4921-82-8

1-Benzoyl-3-phenyl-2-thiourea

Lot # X106433



Highly potent and isozyme selective activator of recombinant HDAC8. Increases the activity of HDAC8 by a factor of 12 at 10 μ M. No activation of other HDACs is observed. Rescues the activity of catalytically compromised HDAC8 mutants *in vitro*.²

- 1) Singh *et al.* (2011), *Histone deacetylase activators: N-acetylthioureas as highly potent and isozyme selective activators for human histone deacetylase-8 on a fluorescent substrate*; Bioorg.Med.Chem.Lett., **21** 5920
- 2) Decross *et al.* (2014), *Compromised Structure and Function of HDAC8 Mutants Identified in Cornelia de Lange Syndrome Spectrum Disorders*; ACS Chem.Biol. **9** 2157
- 3) Singh *et al.* (2015), *Mechanism of N-acylthiourea Mediated Activation of Human Histone Deacetylase 8 (HDAC*) at Molecular and Cellular Levels*; J.Biol.Chem **290** 6607

PHYSICAL DATA

Molecular Weight: 256.32
Molecular Formula: C₁₄H₁₂N₂OS
Purity: >98% by TLC
NMR: (Conforms)
Solubility: DMSO (>50 mg/ml) or ethanol (up to 8 mg/ml)
Physical Description: Off-white solid
Storage and Stability: Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

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