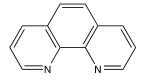


Catalog # 10-3017 1,10-Phenanthroline Hydrochloride Hydrate

CAS# 18851-33-7 o-Phenanthroline hydrochloride hydrate Lot # X101902



·HCI H₂O

- 1,10-Phenanthroline is a high affinity chelator of divalent metal ions and may be used to inhibit zinc metalloenzymes.¹ It is a potent inhibitor of JAMM-type isopeptidases (DUBs) acting via chelation of an active site Zn²⁺. It may be used when preparing cell lysates for enrichment of ubiquitinated proteins which are especially sensitive to DUBs in the JAMM family.^{2,3}
 - 1) Swann et al (1981) Zinc metalloenzyme properties of active and latent collagenase from rabbit bone. Biochem.J. 195 41
 - Cooper et al. (2009) K63-specific deubiquitination by two JAMM/MPN+ complexes: BRISC-associated Brcc36 and proteasomal Poh1 EMBO J. 28 621
 - 3) Lu et al. (2015) Substrate degradation by the proteasome: A single-molecule kinetic analysis Science 348 200

PHYSICAL DATA

Molecular Weight: 234.68

Molecular Formula: $C_{12}H_8N_2 \cdot HCI \cdot H_2O$ Purity: >98% (TLC)

NMR: (Conforms)

Solubility: DMSO (5 mg/ml); Water (2 mg/mL)

Physical Description: White solid

Storage and Stability: Store as supplied at room temperature for up to 2 years from the date of purchase.

Solutions in DMSO or Water may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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