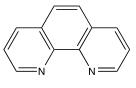


## Catalog # 10-3017 1,10-Phenanthroline Hydrochloride Hydrate

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



·HCI H<sub>2</sub>O

1,10-Phenanthroline is a high affinity chelator of divalent metal ions and may be used to inhibit zinc metalloenzymes.<sup>1</sup> It is a potent inhibitor of JAMM-type isopeptidases (DUBs) acting via chelation of an active site Zn<sup>2+</sup>. It may be used when preparing cell lysates for enrichment of ubiquitinated proteins which are especially sensitive to DUBs in the JAMM family.<sup>2,3</sup>

- 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 <sub>12</sub> H <sub>8</sub> N <sub>2</sub> ·HCl·H <sub>2</sub> O
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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