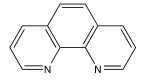


## Catalog # 10-3017 1,10-Phenanthroline Hydrochloride Hydrate

CAS# 3829-86-5 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

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.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462 www.focusbiomolecules.com