1,10-phenanthroline, monohydrate

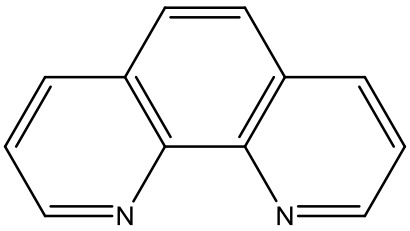
Cat. # SI9649

Background: 1,10-phenanthroline (*o*-phenanthroline) is a chelator with high affinity for divalent metal ions. While not specific for DUBs, it has been shown to be a potent inhibitor of JAMM-type isopeptidases through chelation of the active site Zn^{+2} ion. As such, *o*-phenanthroline is widely used when preparing cell lysates for enrichment of proteins bearing K63-linked polyubiquitin chains which are especially sensitive to DUBs in the JAMM family (*1*).

Application: Inhibition of JAMM-family isopeptidases

Product Information CAS No. 5144-89-8

Purity:	$\geq$ 99%
Molecular Weight:	198.21
Physical State:	DMSO solution, 0.5 M (100X)
Quantity:	0.5 mL
Storage:	-80°C



$C_{12}H_8N_2 \cdot H_2O$

References

1. Cooper, E. M., Cutcliffe, C., Kristiansen, T. Z., Pandey, A., Pickart, C. M., and Cohen, R. E. (2009) K63-specific deubiquitination by two JAMM/MPN+ complexes: BRISC-associated Brcc36 and proteasomal Poh1, *EMBO J 28*, 621-631.

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