

1,10-Phenanthroline HCl, Zn metalloprotease inhibitor

Catalog	Unit
TBI3017 - 1G	1 g
TBI3017 - 5G	5 g

Product Details

Formal Name: o-Phenanthroline hydrochloride hydrate

Molecular Formula: C₁₂H₈N₂·HCl·H₂O

Formula Weight: 234.68

CAS Number: 3829-86-5

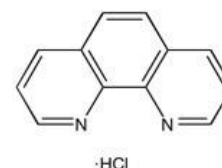
Purity: >98%

Formulation: Powder

Solubility: Soluble in DMSO (up to 5 mg/ml) or in Water (up to 2 mg/ml)

Storage: RT

Stability: ≥ 2 years.



Applications

Zn metalloprotease inhibitor

Functions

1,10-Phenanthroline (18851-33-7) is a high affinity chelator of divalent metal ions and may be used to inhibit zinc metalloenzymes. 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.

Application Procedures

First dissolved in DMSO (up to 5 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

Relative Products

TBI1170	Mitomycin C
TBI1345	E64, Cysteine protease inhibitor
TBI1347	E64d, Cysteine protease inhibitor
TBI2064	Chromomycin A3
TBI2069	Cytochalasin B
TBI2794	5-EDU, DNA Click labeling probe
TBI2071	Cytochalasin D
TBI1286	Bestatin, Aminopeptidase inhibitor
TBI2140	Gemcitabine
TBI2058	Aphidicolin, DNA polymerase Inhibitor

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