

Technical Data Sheet

TPEN

Compound Information

Product Name:	TPEN
CAS No.:	16858-02-9
Molecular Formula:	C ₂₆ H ₂₈ N ₆
Molecular Weight:	424.54
Storage:	Store at +4°C
Revision Date:	2026-04-27

Analytical Information

Tests	Specifications
Description	TPEN (TPEDA) is a specific cell-permeable heavy metal chelator. TPEN has a higher affinity for Zn ²⁺ , but a lower affinity for Mg ²⁺ and Ca ²⁺ . TPEN induces DNA damage and increases intracellular ROS production. TPEN also inhibits cell proliferation and indu
IUPAC Name	N,N,N',N'-Tetrakis(2-pyridylmethyl)ethylenediamine
Form	Tan solid
Color	Off-white or tan
Solubility	Soluble in DMSO (up to 10 mg/ml).
HPLC	Shows 97.4% purity
Melting Point	112 °C (dec.)
NMR	Pass test

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