CD BioGlyco
SUITE 201, 17 Ramsey Road, Shirley, NY 11967, USA
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Product Information

TPEN, Purity ≥98%

Cat. No.: X24-09-YM1149

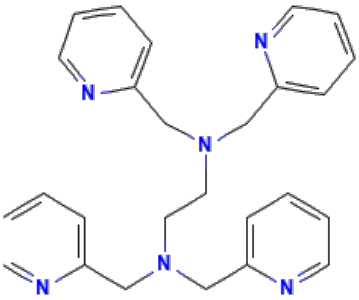
Size: 100 mg; 250 mg; 500 mg; 1000 mg

MDL: MFCD00036918

CAS Number: 16858-02-9

Compound CID: 5519

Synonym: 16858-02-9; TPEDA; *N*,*N*,*N*',*N*'-Tetrakis(pyridin-2-ylmethyl)ethane-1,2-diamine



This product is for research use only and is not intended for diagnostic use.

Product Information

Description	TPEN, soluble in DMSO and ethanol and insoluble in water, is a heavy metal chelator. The molecular weight of the compound is 424.54, and its molecular formula is $C_{26}H_{28}N_6$.
Molecular Weight	424.54
Molecular Formula	$C_{26}H_{28}N_6$
IUPAC Name	*N*,*N*,*N*',*N*'-Tetrakis(pyridin-2-ylmethyl)ethane-1,2-diamine
InChI	InChI=1S/C26H28N6/c1-5-13-27-23(9-1)19-31(20-24-10-2-6-14-28-24)17-18-32(21-25-11-3-7-15-29-25)22-26-12-4-8-16-30-26/h1-16H,17-22H2
InChI Key	CVRXLMUYFMERMJ-UHFFFAOYSA-N
Canonical SMILES	C1=CC=NC(=C1)CN(CCN(CC2=CC=CC=N2)CC3=CC=CC=N3)CC4=CC=CC=N4
Form	Lyophilized powder
Purity	≥98%
Impurities	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects.
Solubility	*In vitro*: DMSO: 77 mg/mL (181.37 mM); Water: insoluble; Ethanol: 77 mg/mL (181.37 mM)
Identity	Confirmed by NMR/HPLC/MS.
Stability	In its lyophilized form, the chemical remains stable for 36 months.
Quality Level	Research grade
Applications	TPEN plays a key role in inhibiting zinc-dependent enzymes and processes in cells, including metalloproteinases and various signaling pathways dependent on zinc homeostasis, which can influence cell proliferation and apoptosis.
Storage	Store at -20ºC, and keep desiccated.

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