TPEN

Heavy metal chelator

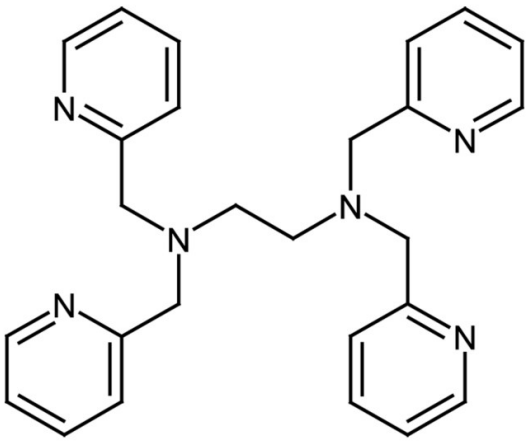
A cell permeable and extremely high-affinity chelator of heavy metals, yet with low affinity for Mg^{2+} and Ca^{2+}. Lipid-soluble, crossing both natural and artificial membranes. TPEN can be used in conjunction with QUIN 2 (Prod. No. ENZ-52013) or QUIN 2/AM to reduce heavy-metal quenching of QUIN 2 fluorescence in cells. Ion specificity: $Zn^{2+}>Fe^{2+}>Mn^{2+}>>Ca^{2+}=Mg^{2+}$. Complex with Fe^{2+} catalyzes superoxide dismutation. Induces DNA fragmentation when chelated with Zn^{2+} and induces apoptosis in T cells.

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ALX-450-011-M100	100mg

Manuals, SDS & CofA View Online »


N
N
N
N
N
N

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended.
Long Term Storage	+4°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	N,N,N',N'-Tetrakis-(2-pyridylmethyl)ethylenediamine
Appearance	White to light yellow to brown solid.
CAS	16858-02-9
Formula	$C_{26}H_{28}N_6$
MW	424.5
Purity	≥97% (Nonaqueous Titration)
Solubility	Soluble in dimethyl formamide, DMSO, 100% ethanol or methanol.

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