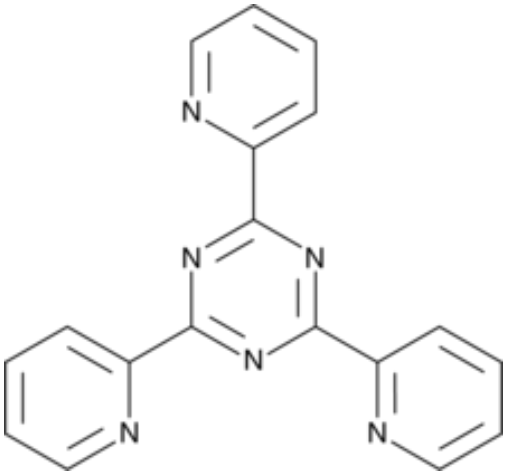
Product Data Sheet

Product Name: TPTZ
Cat. No.: GC45581

Chemical Properties

Cas. No.	3682-35-7		
SMILES	C1(C2=NC(C3=NC=CC=C3)=NC(C4=CC=CC=N4)=N2)=CC=CC=N1		
Formula	$C_{18}H_{12}N_6$	M.Wt	312.3
Solubility	DMF: 10mg/mL,DMSO: 10mg/mL,Ethanol: 20mg/ml,Ethanol:PBS (pH 7.2) (1:4): 0.2mg/mL	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

TPTZ is a colorimetric reagent commonly used in the detection of iron.1,2 TPTZ forms a complex with Fe(II) that can be quantified by colorimetric detection at 594 nm as a measure of iron concentration.

References

Caution: Product has not been fully validated for medical applications. For research use only.
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1. Collins, P.F., and Diehl, H. 2,4,6-Tripyridyl-s-triazine as a reagent for iron. Determination of iron in limestone, silicates, and refractories. Anal. Chem. 31(11), 1862-1867 (1959).
2. Dehghani, Z., Dadfarnia, S., Shabani, A.M.H., et al. Determination of iron species by combination of solvent assisted-dispersive solid phase extraction and spectrophotometry. Anal. Bioanal. Chem. Res. 2(1), 13-21 (2015).

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