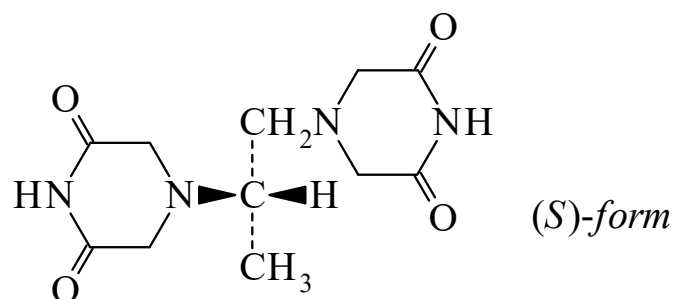




>>Entry Name: Razoxane, BAN, INN

Synonym(s): 4,4'-(1-Methyl-1,2-ethanediyl)bis-2,6-piperazinedione, 9CI. 4,4'-Propylenedi-2,6-piperazinedione, 8CI. Razoxin. Tepiron. Troxozone. ICI 59118. ICRF 159. NSC 129943. TIMP



CAS Registry Number: 21416-67-1

Molecular Formula: $C_{11}H_{16}N_4O_4$

Molecular Weight: 268.272

Accurate Mass: 268.117156

Percentage Composition: C 49.25%; H 6.01%; N 20.88%; O 23.86%

Use/Importance: Antineoplastic agent. Iron chelator; used in combination therapy to reduce cardiotoxicity of Adriamycin [BDR09-T](#) in treatment of breast cancer

>>Variant: (S)-form

Synonym(s): Dexrazoxane, BAN, INN, USAN. Cardioxane. Zinecard. ADR 529. ICRF 187. NSC 169780

CAS Registry Number: 24584-09-6

Molecular Formula: $C_{11}H_{16}N_4O_4$

Molecular Weight: 268.272

Accurate Mass: 268.117156

Percentage Composition: C 49.25%; H 6.01%; N 20.88%; O 23.86%

Development Status: Launched 1992 (Italy)

Melting Point: Mp 193-194°

Optical Rotation: $[\alpha]_D^{25} +41$ (c, 0.5 in H_2O). $[\alpha]_D^{25} +11.5$ (5% DMF)

Calculated Log P Data: Log P 0.22 (uncertain value) (calc)

Other Data: Pharmacol. active isomer

>>Variant: (±)-form

CAS Registry Number: 21416-87-5

Molecular Formula: $C_{11}H_{16}N_4O_4$

Molecular Weight: 268.272

Accurate Mass: 268.117156

Percentage Composition: C 49.25%; H 6.01%; N 20.88%; O 23.86%

Melting Point: Mp 233-234°

Calculated Log P Data: Log P 0.22 (uncertain value) (calc)

Hazard & Toxicity: Adverse effects incl. bone marrow depression, gastrointestinal disturbances, skin reactions and alopecia. Associated with development of secondary malignancies. Exp. carcinogen and teratogen. Exp. reprod. effects

References: