

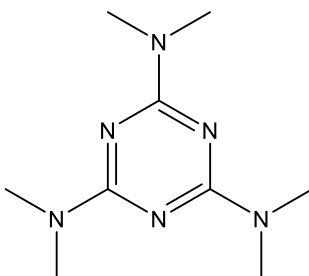
Catalog # 10-5592

Altretamine

CAS# 645-05-6

N²,N²,N⁴,N⁴,N⁶,N⁶-Hexamethyl-1,3,5-triazine-2,4,6-triamine; 2,4,6-Tris(dimethylamino)-1,3,5-triazine;
Hexamethylmelamine; NSC-13875

Lot # X109071



Altretamine induces ferroptosis by inhibiting glutathione peroxidase 4 (GPX4) which causes accumulation of lipid hydroperoxides.¹ Ferroptosis induction may be its mechanism of action as a cancer chemotherapeutic.² Clinically useful agent for ovarian cancer.^{3,4}

References/Citations:

- 1) Woo *et al.* (2015), *Elucidating Compound Mechanism of Action by Network Perturbation Analysis*; Cell, **162** 441
- 2) Ye *et al.* (2021), *The mechanisms and therapeutic targets of ferroptosis in cancer*; Expert. Opin. Ther. Targets, **25** 965
- 3) Alberts *et al.* (2004), *Long-term follow-up of a phase II trial of oral altretamine for consolidation of clinical complete remission in women with stage III epithelial ovarian cancer in the Southwest Oncology Group*; Int. J. Gynecol. Cancer, **14** 224
- 4) Chan *et al.* (2004), *Oral altretamine used as salvage therapy in recurrent ovarian cancer*; Gynecol. Oncol., **92** 368

PHYSICAL DATA

Molecular Weight:	210.29
Molecular Formula:	C ₁₉ H ₁₈ N ₆
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (40 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at room temperature for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 2 months.

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