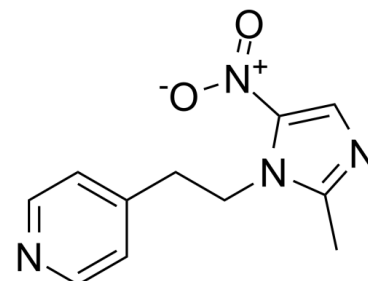


Data Sheet

Product Name:	Panidazole
Cat. No.:	CS-6643
CAS No.:	13752-33-5
Molecular Formula:	C ₁₁ H ₁₂ N ₄ O ₂
Molecular Weight:	232.24
Target:	Parasite
Pathway:	Anti-infection
Solubility:	DMSO : ≥ 125 mg/mL (538.24 mM)



BIOLOGICAL ACTIVITY:

Panidazole is an amoebicide. **In Vitro:** Panidazole in concentrations of 0.02-1 mM increases the mutation frequency of *Klebsiella pneumoniae*, *Escherichia coli* K12 and *Citrobacter freundii* to streptomycin resistance, including streptomycin dependence, in Luria and Delbrück's fluctuation test^[1]. **In Vivo:** In 100 cases of vaginal trichomoniasis treated with panidazole at the dose of 1.0 g per day for seven days in half of the patients and for 10 days in the other half, we obtained 50% and 60% cure rates^[3].

References:

- [1]. Voogd CE, et al. The mutagenic action of nitroimidazoles. II. Tinidazole, ipronidazole, panidazole and ornidazole. *Mutat Res.* 1977 Apr;48(2):155-61.
- [2]. Botero D, et al. Treatment of intestinal amoebiasis and vaginal trichomoniasis with panidazole and its comparison with metronidazole. *Trans R Soc Trop Med Hyg.* 1977;71(6):508-11.

CAIndexNames:

Pyridine, 4-[2-(2-methyl-5-nitro-1H-imidazol-1-yl)ethyl]-

SMILES:

O=[N+](C1=CN=C(C)N1CCC2=CC=NC=C2)[O-]

Caution: Product has not been fully validated for medical applications. For research use only.

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