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Produktinformation



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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



Fexinidazole

Item No. 18393

CAS Registry No.: 59729-37-2

Formal Name: 1-methyl-2-[[4-(methylthio)phenoxy]methyl]-5-nitro-1H-imidazole

MF: $C_{12}H_{13}N_3O_3S$

FW: 279.3

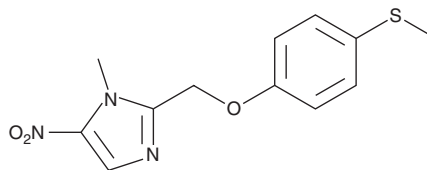
Purity: $\geq 98\%$

UV/Vis.: λ_{max} : 227, 257, 299 nm

Supplied as: A crystalline solid

Storage: $-20^{\circ}C$

Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

Fexinidazole is supplied as a crystalline solid. A stock solution may be made by dissolving the fexinidazole in the solvent of choice. Fexinidazole is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of fexinidazole in these solvents is approximately 0.2, 10, and 20 mg/ml, respectively.

Fexinidazole is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, fexinidazole should first be dissolved in DMF and then diluted with the aqueous buffer of choice. Fexinidazole has a solubility of approximately 0.11 mg/ml in a 1:8 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Fexinidazole is an antiparasitic drug that, in different preparations, is effective against trypanosomes.^{1,2} It is orally available and rapidly metabolized to two active metabolites, a sulfone and a sulfoxide.^{2,3} Fexinidazole has been shown to kill both *T. brucei gambiense* and *T. brucei rhodesiense* in animal studies and is being tested for use in human African trypanosomiasis.^{3,4}

References

1. Jennings, F.W., Atouguia, J.M., and Murray, M. Topical chemotherapy for experimental murine African CNS-trypanosomiasis: The successful use of the arsenical, melarsoprol, combined with the 5-nitroimidazoles, fexinidazole or MK-436. *Trop. Med. Int. Health* **1**(5), 590-598 (1996).
2. Torreele, E., Bourdin Trunz, B., Tweats, D., et al. Fexinidazole--a new oral nitroimidazole drug candidate entering clinical development for the treatment of sleeping sickness. *PLoS Negl. Trop. Dis.* **4**(12), (2010).
3. Eperon, G., Balasegaram, M., Potet, J., et al. Treatment options for second-stage gambiense human African trypanosomiasis. *Expert Rev. Anti. Infect. Ther.* **12**(11), 1407-1417 (2014).
4. Steinmann, P., Stone, C.M., Sutherland, C.S., et al. Contemporary and emerging strategies for eliminating human African trypanosomiasis due to *Trypanosoma brucei gambiense*: Review. *Trop. Med. Int. Health* **20**(6), 707-718 (2015).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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