

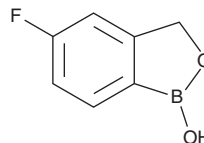
PRODUCT INFORMATION



AN-2690

Item No. 23101

CAS Registry No.: 174671-46-6
Formal Name: 5-fluoro-1,3-dihydro-1-hydroxy-2,1-benzoxaborole
Synonym: Tavaborole
MF: C₇H₆BFO₂
FW: 151.9
Purity: ≥98%
UV/Vis.: λ_{max}: 215 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

AN-2690 is supplied as a crystalline solid. A stock solution may be made by dissolving the AN-2690 in the solvent of choice, which should be purged with an inert gas. AN-2690 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of AN-2690 in ethanol and DMF is approximately 33 mg/ml and approximately 3 mg/ml in DMSO.

Description

AN-2690 is a broad spectrum antifungal agent with MIC values ranging from 0.25-1 µg/mL against *T. rubrum*, *T. mentagrophytes*, *C. albicans*, *C. neoformans*, and *A. fumigatus*.¹ It inhibits tRNA aminoacylation (IC₅₀ = 2.1 µM) and hydrolysis of Ile-tRNA^{Leu} in a concentration-dependent manner *in vitro*.² Formulations containing AN-2690 have been used in the treatment of onychomycosis.

References

1. Baker, S.J., Zhang, Y.-K., Akama, T., *et al.* Discovery of a new boron-containing antifungal agent, 5-fluoro-1,3-dihydro-1-hydroxy-2,1-benzoxaborole (AN2690), for the potential treatment of onychomycosis. *J. Med. Chem.* **49**(15), 4447-4450 (2006).
2. Rock, F.L., Mao, W., Yaremchuk, A., *et al.* An antifungal agent inhibits an aminoacyl-tRNA synthetase by trapping tRNA in the editing site. *Science* **316**(5832), 1759-1761 (2007).

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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