Compound Summary for CID 11499245

Tavaborole

Cite this Record

STRUCTURE VENDORS DRUG INFO PHARMACOLOGY LITERATURE PATENTS BIOACTIVITIES

PubChem CID:	11499245
Chemical Names:	Tavaborole; 174671-46-6; AN-2690; 5-FLUOROBENZO[C][1,2]OXABOROL-1(3H)-OL; Kerydin; AN 2690 More...
Molecular Formula:	$C_7H_6BFO_2$
Molecular Weight:	151.931 g/mol
InChI Key:	LFQDNHWZDQTITF-UHFFFAOYSA-N
Drug Information:	Drug Indication Therapeutic Uses Clinical Trials FDA Orange Book FDA UNII
Safety Summary:	Laboratory Chemical Safety Summary (LCSS)

Tavaborole is an Oxaborole Antifungal. The mechanism of action of tavaborole is as a Protein Synthesis Inhibitor. The chemical classification of tavaborole is Boron Compounds.

FDA Pharmacology Summary from FDA Pharm Classes

5-Fluoro-1 3-Dihydro-1-Hydroxy-2 1-Benzoxaborole is a boron-containing small molecule antifungal agent with broad-spectrum activity against filamentous fungi, including both mold and yeast. 5-Fluoro-1,3-dihydro-1-hydroxy-2,1-benzoxaborole inhibits fungal cytoplasmic leucyl-tRNA synthetase by preventing catalytic turnover, thus inhibiting synthesis of leucyl-tRNA(Leu) and consequentially blocking protein synthesis.

Pharmacology from NCIt

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1 2D Structure

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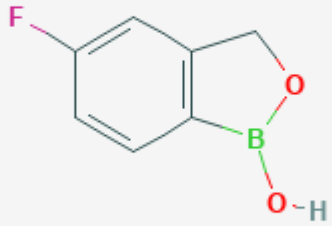

Magnify

from PubChem

2 3D Status

Conformer generation is disallowed since MMFF94s unsupported element

from PubChem

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