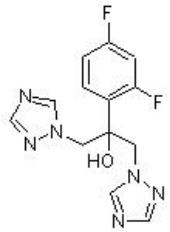
abcam

Product datasheet

Fluconazole, Cytochrome P450 inhibitor ab141065

2 Images

Overview

Product name	Fluconazole, Cytochrome P450 inhibitor
Description	Triazole antifungal agent. Cytochrome P450 inhibitor.
Biological description	Triazole antifungal agent. Cytochrome P450 inhibitor (IC_{50} values are 30.3, 12.3, 13.1 µM for CYP2C9, CYP2C19 and CYP3A4, respectively). Penetrates the blood-brain barrier.
Purity	> 99%
CAS Number	86386-73-4
Chemical structure	

Properties

Chemical name	2-(2,4-Difluorophenyl)-1,3-bis(1*H*-1,2,4-triazol-1-yl)propan-2-ol
Molecular weight	306.27
Molecular formula	$C_{13}H_{12}F_2N_6O$
PubChem identifier	3365
Storage instructions	Store at +4°C. The product can be stored for up to 12 months.
Solubility overview	Soluble in DMSO to 100 mM and in ethanol to 100 mM
Handling	Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour. Toxic, refer to SDS for further information. Need more advice on solubility, usage and handling? Please visit our **frequently asked questions (FAQ) page** for more details.

SMILES	OC(Cn1cncn1)(Cn2cncn2)c3ccc(F)cc3F
Source	Synthetic

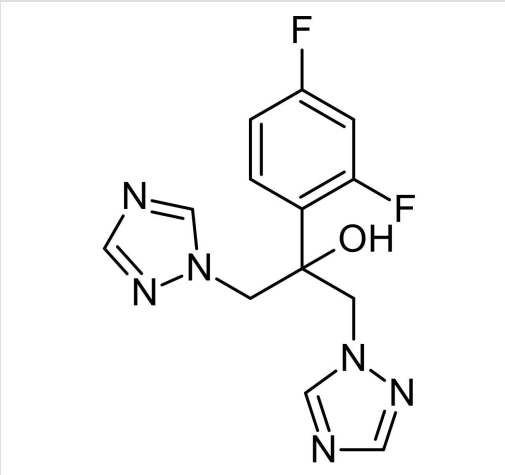
Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab141065 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

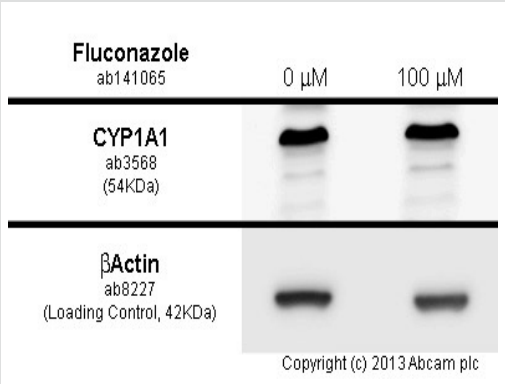
Application	Abreviews	Notes
Functional Studies		Use at an assay dependent concentration.

Images



Chemical Structure - Fluconazole, Cytochrome P450 inhibitor (ab141065)

2D chemical structure image of ab141065, Fluconazole, Cytochrome P450 inhibitor



Functional Studies - Fluconazole, Cytochrome P450 inhibitor (ab141065)

HepG2 cells were incubated at 37ºC for 24h with vehicle control (0 µM) and 100 µM of fluconazole (ab141065). Increased expression of cytochrome P450 1A1 (**ab3568**) correlates with an increase in fluconazole concentration, as described in literature.

Whole cell lysates were prepared with RIPA buffer (containing protease inhibitors and sodium orthovanadate), 10 µg of each were loaded on the gel and the WB was run under reducing conditions. After transfer the membrane was blocked for an hour using 3% milk before being incubated with **ab3568** at 1/500 dilution and **ab8227** at 1 µg /ml overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP (**ab97051**) at 1/10000 dilution and visualised using ECL development solution.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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