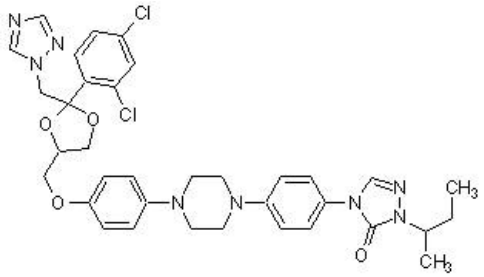
abcam

Product datasheet

Itraconazole, Cytochrome p450 inhibitor ab120816

2 Images

Overview

Product name	Itraconazole, Cytochrome p450 inhibitor
Description	Cytochrome p450 inhibitor
Purity	> 99%
CAS Number	84625-61-6
Chemical structure	

Properties

Chemical name	4-[4-[4-[4-[[2-(2,4-Dichlorophenyl)-2-(1*H*-1,2,4-triazol-1-ylmethyl)-1,3-dioxolan-4-yl]methoxy]phenyl]-1-piperazinyl]phenyl]-2,4-dihydro-2-(1-methylpropyl)-3*H*-1,2,4-triazol-3-one
Molecular weight	705.64
Molecular formula	$C_{35}H_{38}Cl_2N_8O_4$
Storage instructions	Store at -20°C. It is important to note that this product is reported to be light sensitive. Store In the Dark. Store under desiccating conditions.
Solubility overview	Soluble in DMSO to 50 mM and in ethanol to 10 mM (with warming)
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. 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.
Source	Synthetic

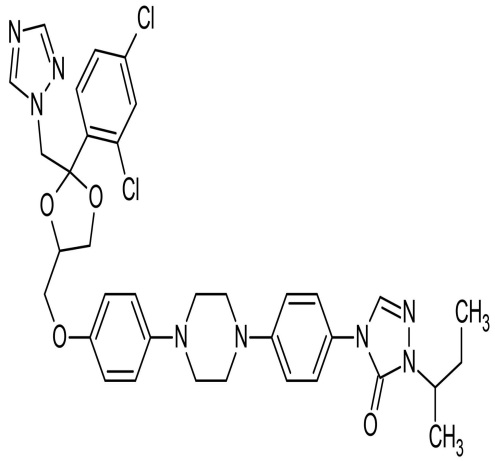
Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab120816 in the following tested applications.

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

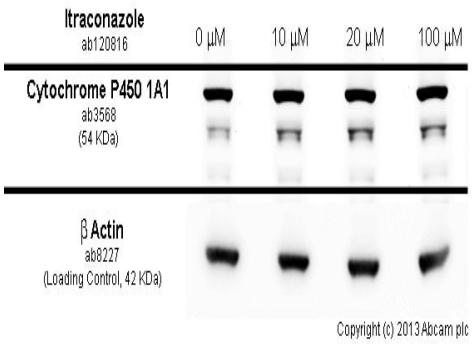
Application	Abreviews	Notes
Functional Studies		Use at an assay dependent concentration.

Images



Chemical Structure - Itraconazole, Cytochrome p450 inhibitor (ab120816)

2D chemical structure image of ab120816, Itraconazole, Cytochrome p450 inhibitor



Functional Studies - Itraconazole, Cytochrome p450 inhibitor (ab120816)

HepG2 cells were incubated at 37°C for 24h with vehicle control (0 µM) and different concentrations of itraconazole (ab120816). Increased expression of cytochrome P450 1A1 (**ab3568**) in HepG2 cells correlates with an increase in nifuroxazide 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.

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