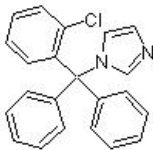


Clotrimazole, Non-selective P450 cytochrome inhibitor ab120744

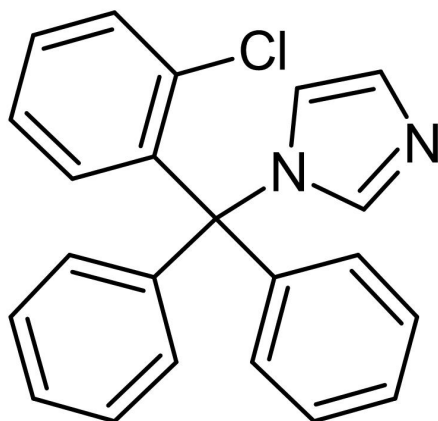
2 图像

概述

产品名称	Clotrimazole, Non-selective P450 cytochrome抑制剂
描述	Non-selective P450 cytochrome抑制剂
生物学描述	Non-selective P450 cytochrome inhibitor ($K_i = 0.02-67 \mu\text{M}$ for P450 cytochrome subtypes). Potent inhibitor of 3A4 ($K_i = 20 \text{ nM}$). Antifungal agent.
纯度	> 99%
CAS编号	23593-75-1
化学结构	

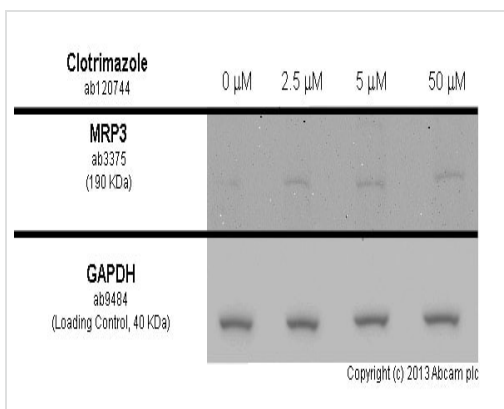
性能

化学名称	1-(2-Chloro- α,α -diphenylbenzyl)imidazole
分子量	344.84
分子式	$\text{C}_{22}\text{H}_{17}\text{ClN}_2$
存放说明	Store at Room Temperature. The product can be stored for up to 12 months.
溶解度概述	Soluble in DMSO to 75 mM and in ethanol to 100 mM
处理	<p>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.</p> <p>Toxic, refer to SDS for further information.</p> <p>Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.</p>
来源	Synthetic



Chemical Structure - Clotrimazole, Non-selective
P450 cytochrome inhibitor (ab120744)

2D chemical structure image of ab120744, Clotrimazole, Non-selective P450 cytochrome inhibitor



Functional Studies - Clotrimazole, Non-selective
P450 cytochrome inhibitor (ab120744)

HepG2 cells were incubated at 37°C for 24h with vehicle control (0 μM) and different concentrations of clotrimazole (ab120744) in DMSO. Increased expression of MRP3 ([ab3375](#)) correlates with an increase in clotrimazole concentration, as described in literature.

Whole cell lysates were prepared with RIPA buffer (containing protease inhibitors and sodium orthovanadate), 20 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 [ab3375](#) at 1/50 dilution and [ab9484](#) at 1 μg /ml overnight at 4°C. Antibody binding was detected using an anti-mouse antibody conjugated to HRP ([ab97040](#)) 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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