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产品名称: 米卡芬净;Micafungin
CAS 号: 235114-32-6
产品货号: S89567

生物活性:

Description	Micafungin (FK463) 是一种抗真菌 (antifungal) 剂, 可抑制 β -1,3-葡聚糖合酶。Micafungin 可抑制真菌细胞壁中 1,3- β -葡聚糖的生物合成。Micafungin 可用于真菌感染研究, 如念珠菌感染和曲霉病。								
In Vitro	Micafungin (24-48 h) 可在体外强效抑制多种念珠菌(Candida) 菌株的生长, 其 MIC80 值范围为 0.0039 至 0.25 μg/mL[1]。 Micafungin (0.25-4 $\times$ MIC80; 1 h) 在体外对所有受试念珠菌 (Candida) 菌种产生可检测的、浓度依赖性的抗真菌后效应; 在 4 $\times$ MIC80 浓度下, 对克柔念珠菌 (C. krusei) 分离株观察到最长的效应[1]。 Micafungin (48 h) 对烟曲霉 (Aspergillus fumigatus) FP1305 具有抑真菌活性, 其 MEC 为 0.004 μg/mL, MIC 大于 0.5 μg/mL; 与 KB425796-C 联用时对烟曲霉 FP1305 具有协同抗真菌活性[2]。 Micafungin (0.05 μg/mL; 17-48 h) 于 17、24、42 和 48 h 时对烟曲霉 FP1305 发挥抑菌活性, 其 CFU 无下降, 且 48 h 后生长抑制率达 70-80%[2]。								
In Vivo	Micafungin (0.1 mg/kg; 皮下注射; 每日 1 次; 连续 2 天) 与 KB425796-C 联合使用在小鼠系统性曲霉感染模型中实现了 100% 的存活率[2]。 <table><tr><td>Animal Model:</td><td>DBA/2 (7-week-old female, systemic aspergillosis model)[2]</td></tr><tr><td>Dosage:</td><td>0.1 mg/kg, companied with KB425796-C</td></tr><tr><td>Administration:</td><td>S.c.; once daily; 2 consecutive days</td></tr><tr><td>Result:</td><td>Achieved 100% mouse survival during the observation period.</td></tr></table>	Animal Model:	DBA/2 (7-week-old female, systemic aspergillosis model)[2]	Dosage:	0.1 mg/kg, companied with KB425796-C	Administration:	S.c.; once daily; 2 consecutive days	Result:	Achieved 100% mouse survival during the observation period.
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参考文献	[1]. Ernst EJ, et al. In vitro activity of micafungin (FK-463) against Candida spp.: microdilution, time-kill, and postantifungal-effect studies. Antimicrob Agents Chemother. 2002;46(12):3846-3853. [2]. Kai H, et al. Synergistic antifungal activity of KB425796-C in combination with micafungin against Aspergillus fumigatus and its efficacy in murine infection models. J Antibiot (Tokyo). 2013;66(8):479-484.								