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Dihydroethidium (超氧化物阴离子荧光探针)

产品编号	产品名称	包装
S0063	Dihydroethidium (超氧化物阴离子荧光探针)	5mg

产品简介:

- Dihydroethidium简称DHE, 是最常用的检测细胞内超氧化物阴离子水平的荧光探针。分子式为 $C_{21}H_{21}N_3$, 分子量为315.41。
- Dihydroethidium是一种最常用的超氧化物阴离子荧光检测探针。可以直接用于活细胞的标记。Dihydroethidium被活细胞摄入后, 可以在细胞内的超氧化物阴离子作用下脱氢, 产生ethidium。Ethidium (例如溴化乙锭)可以和RNA或DNA结合产生红色荧光。当细胞内的超氧化物阴离子水平较高时, 产生的ethidium较多, 红色荧光就较强, 反之则较弱。这样就可以用dihydroethidium进行超氧化物阴离子水平的检测。
- Dihydroethidium本身为蓝色荧光, 最大激发波长为370nm, 最大发射波长为420nm, 脱氢后和RNA或DNA结合产生红色荧光, 最大激发波长为300nm, 最大发射波长为610nm, 实际观察时也可以使用535nm作为激发波长。
- Dihydroethidium可以溶解于DMSO, 配制成适当的母液。
- 用于细胞内超氧化物阴离子检测时, Dihydroethidium的常用浓度为1-10 μ M。通常含有0.5-5 μ M的Dihydroethidium的适当溶液和细胞一起在37 $^{\circ}$ C孵育30分钟左右进行荧光探针装载, 随后可以适当洗涤, 接着可以直接用流式细胞仪或其它适当荧光检测仪器进行检测。

包装清单:

产品编号	产品名称	包装
S0063	Dihydroethidium (超氧化物阴离子荧光探针)	5mg
—	说明书	1份

保存条件:

-20 $^{\circ}$ C避光保存, 6个月有效。易在空气中氧化, 尽量避免暴露于空气中。

注意事项:

- Dihydroethidium易在空气中氧化, 请尽量避免暴露于空气中。
- Dihydroethidium脱氢后产生毒性较高的ethidium, 请注意防护。
- 荧光染料均存在淬灭问题, 请尽量注意避光, 以减缓荧光淬灭。
- 本产品仅限于专业人员的科学研究用, 不得用于临床诊断或治疗, 不得用于食品或药品, 不得存放于普通住宅内。
- 为了您的安全和健康, 请穿实验服并戴一次性手套操作。

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