

Golgi-Tracker Red (高尔基体红色荧光探针)

产品编号	产品名称	包装
C1043	Golgi-Tracker Red (高尔基体红色荧光探针)	1mg

产品简介:

- Golgi-Tracker Red是一种高尔基体红色荧光探针，是神经鞘脂(sphingolipid)类荧光探针中的一种，可以用于活细胞高尔基体特异性荧光染色。
- Golgi-Tracker Red为采用Molecular Probes公司的BODIPY TR进行了荧光标记的C5-ceramide。Ceramide或其类似物可以选择性地和高尔基体结合，因此荧光标记的ceramide可以用作高尔基体特异性的荧光探针。Golgi-Tracker Red可以用于活细胞的高尔基体荧光标记，但不适用于固定细胞的标记。Golgi-Tracker Red的化学结构式参考图1。

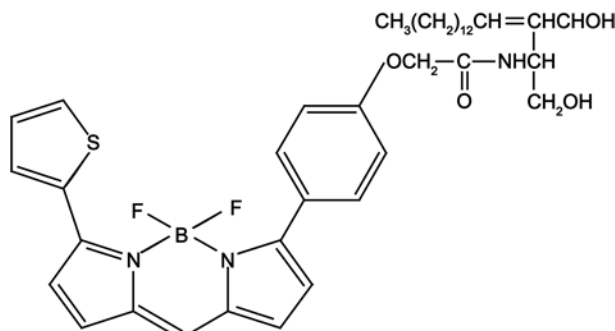


图1. Golgi-Tracker Red的化学结构式。

- Golgi-Tracker Red分子式为 $\text{C}_{39}\text{H}_{50}\text{BF}_2\text{N}_3\text{O}_4\text{S}$ ，分子量为705.71，呈红色荧光，最大激发波长为589nm，最大发射波长为617nm。Golgi-Tracker Red的激发光谱和发射光谱参考图2。

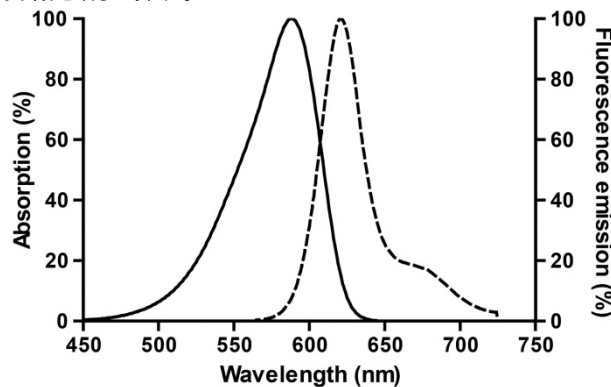


图2. Golgi-Tracker Red的激发光谱和发射光谱。

- Golgi-Tracker Red常用于活细胞的脂类运输和代谢研究，相比较于传统的同类型探针NBD C_6 -ceramide，其呈现出更高的摩尔吸光系数和光量子产量，且光稳定性更强。除了以上应用，本探针还可用来测定Schwann细胞内脂类合成的速率，以及标记细胞轮廓以便于共聚焦显微镜下观察形态运动。
- 本Golgi-Tracker Red探针已与BSA形成复合物。本产品所属的神经鞘脂类荧光探针与BSA形成复合物后，对活细胞高尔基体的标记会更加高效。
- 本试剂盒提供了Golgi-Tracker Red稀释液，使Golgi-Tracker Red的使用更加便捷。
- 按照1:100的比例稀释，可以配制3ml Golgi-Tracker Red工作液；按照1:200的比例稀释，可以配制6ml Golgi-Tracker Red工作液。

包装清单:

产品编号	产品名称	包装
C1043-1	Golgi-Tracker Red (33.3mg/ml, 30 μ l)	1mg
C1043-2	Golgi-Tracker Red稀释液	6ml

—	说明书	1份
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保存条件：

-20°C保存，半年有效。Golgi-Tracker Red需-20°C避光保存。

注意事项：

- 对于微量的液体，每次使用前先离心数秒钟，使液体充分沉降到管底。
- 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。
- 需自备盖玻片和载玻片(可以向碧云天订购)。
- Golgi-Tracker Red可以用于活细胞的高尔基体荧光标记，但不适合用于固定细胞高尔基体的荧光标记。
- 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。

使用说明：

1. Golgi-Tracker Red工作液的配制：

- a. 取少量Golgi-Tracker Red按照1:100的比例加入到Golgi-Tracker Red稀释液中。例如取10 μ l Golgi-Tracker Red加入到1ml Golgi-Tracker Red稀释液中。混匀后即为Golgi-Tracker Red工作液。
注：工作液中Golgi-Tracker Red的浓度可以根据实际情况进行适当调整，推荐的稀释比例调整范围为1:50-1:200。
- b. Golgi-Tracker Red工作液可以在首次使用后回收保存于4°C或-20°C，并重复使用。1-2天内可以4°C保存，更长时间则需-20°C保存。使用至达不到预期效果时可以废弃。

2. 活细胞高尔基体的荧光标记：

- a. 去除细胞培养液，用适量的溶液如HBSS with Ca²⁺ & Mg²⁺ (Hanks' Balanced Salt Solution with Ca²⁺ & Mg²⁺)洗涤生长在盖玻片上的细胞。注：HBSS with Ca²⁺ & Mg²⁺ (C0219)可以向碧云天订购；对于悬浮细胞的染色可以参考贴壁细胞的染色方法进行。
- b. 去除洗涤液，加入步骤1配制好的Golgi-Tracker Red染色工作液，与细胞4°C共孵育30分钟。
- c. 回收Golgi-Tracker Red染色工作液，用冰浴预冷的细胞培养液洗涤细胞3次左右，换新鲜培养液37°C孵育30分钟。
- d. 用新鲜培养液再洗涤一次，随后通常用荧光显微镜或激光共聚焦显微镜进行观察。此时可观察到高尔基体呈明亮的强荧光染色，而细胞内的其他膜系统呈比较微弱的荧光染色。

相关产品：

产品编号	产品名称	包装
C1002	DAPI	5mg/ml×0.2ml
C1005/C1006	DAPI 染色液	10ml/50ml
C1011	Hoechst 33258	10mg
C1017/C1018	Hoechst 33258 染色液	10ml/50ml
C1022	Hoechst 33342	10mg
C1025/C1026	Hoechst 33342 染色液	10ml/50ml
C1027/C1028/C1029	Hoechst 33342 活细胞染色液(100X)	0.1ml/0.5ml/3ml
C1033	Actin-Tracker Green (微丝绿色荧光探针)	0.2ml
C1036	DiI (细胞膜红色荧光探针)	10mg
C1038	DiO (细胞膜绿色荧光探针)	10mg
C1039-10mg	DiD (细胞膜远红外荧光探针)	10mg
C1041	ER-Tracker Red (内质网红色荧光探针)	20 μ l
C1042S	ER-Tracker Green (内质网绿色荧光探针)	20 μ l
C1043	Golgi-Tracker Red (高尔基体红色荧光探针)	1mg
C1045S	Golgi-Tracker Green (高尔基体绿色荧光探针)	1mg
C1046	Lyso-Tracker Red (溶酶体红色荧光探针)	50 μ l
C1047S	Lyso-Tracker Green (溶酶体绿色荧光探针)	50 μ l
C1048	Mito-Tracker Green (线粒体绿色荧光探针)	50 μ g
C1049-50 μ g	Mito-Tracker Red CMXRos (线粒体红色荧光探针)	50 μ g
C1049-250 μ g	Mito-Tracker Red CMXRos (线粒体红色荧光探针)	50 μ g×5
C1050	Tubulin-Tracker Red (抗体法微管红色荧光探针)	40 μ l
C1051S	Tubulin-Tracker Green (抗体法微管绿色荧光探针)	40 μ l
C1991S	细胞膜红色荧光染色试剂盒(DiI)	200-1000次
C1993S	细胞膜绿色荧光染色试剂盒(DiO)	200-1000次
C1995S	细胞膜远红外荧光染色试剂盒(DiD)	200-1000次

C2005	JC-1	1mg
C2007	Rhodamine 123	5mg

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Version 2024.03.12