Lumiprobe Corporation
115 Airport Dr Suite 160
Westminster, Maryland 21157
美国
电话：+1 888 973 6353
传真：+1 888 973 6354
电子邮件：order@lumiprobe.com

SiRhius® 650 azide

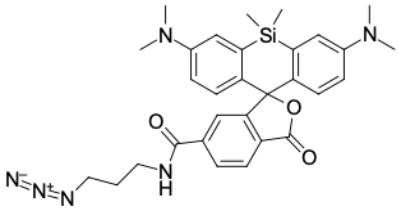
http://cn.lumiprobe.com/p/sir-azide

SiRhius® 650 azide is a far-red fluorescent dye functionalized with an azide group for bioorthogonal labeling via click chemistry. The probe is designed for rapid and selective conjugation to alkyne-bearing biomolecules using copper-catalyzed (CuAAC) or strain-promoted (SPAAC) cycloaddition reactions.

The SiRhius® 650 fluorophore exhibits excitation and emission maxima in the far-red region (~650/670 nm), enabling deep tissue penetration and low background autofluorescence. Its high molar absorptivity and quantum yield provide a bright signal, while the photostable scaffold enables extended imaging applications, including live-cell and super-resolution microscopy.

The azide functionality is chemically stable under physiological conditions yet highly reactive in click reactions, allowing efficient labeling of proteins, nucleic acids, lipids, and other biomolecules modified with terminal alkynes. The relatively compact size of the azide group minimizes perturbation of the target molecule, preserving biological function.

SiRhius 650® azide is suitable for fluorescence microscopy, flow cytometry, and *in vitro* or *in vivo* imaging workflows where far-red emission and high specificity of labeling are required.



外观: 浅蓝色晶体

分子量: 554.71

CAS 编号: 3031722-00-3

分子式: $C_{30}H_{34}N_6O_3Si$

溶解度: DCM、乙腈、三乙胺、DMF、DMSO

质量控制: NMR ^1H 和 HPLC-MS (95+%)

储存条件: 收到后 -20°C 避光保存 24 个月。运输：室温下最多可保存3周。干燥。

法律声明: 本产品仅供研究目的提供和销售。 本产品并未经过食品、药品、医疗器械、化妆品等领域的安全性和效力测试，且未经明示或暗示授权用于其他任何用途，包括但不限于体外诊断、人类或动物用途，以及商业用途 。

激发/吸收极大值，纳米: 646

ε, 摩尔吸光系数 cm^{-1}: 112000

发射极大值，纳米: 669

荧光量子产率: 0.57

CF_{260}: 0.07

CF_{280}: 0.02