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SiRhius® 650 azide

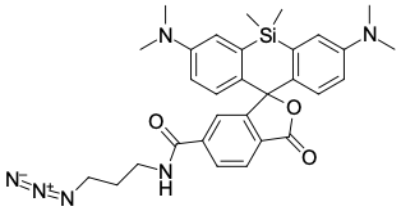
http://hk.lumiprobe.com/p/sir-azide

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:	淺藍色晶體
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:	收到後 -20°C 避光保存 24 個月。運輸：室溫最多可保存3週。乾燥。
法律声明:	本產品僅供研究目的提供和銷售。本產品並未經過食品、藥品、醫療器械、化妝品等領域的安全性和效力測試，且未經明示或暗示授權用於其他任何用途，包括但不限於體外診斷、人類或動物用途，以及商業用途。

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

SiRhius® 是 Lumiprobe 的商標