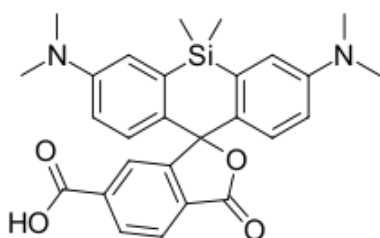


SiRhius® 650 carboxylic acid

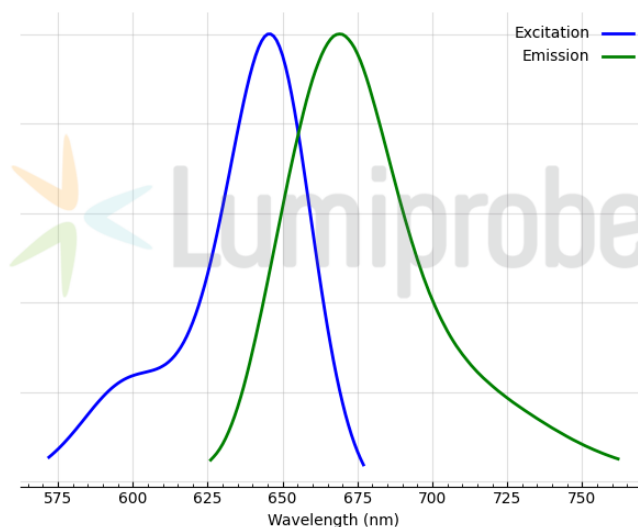
<http://www.lumiprobe.com/p/sir-6-carboxylic-acid>

SiRhius® 650 is a silicon rhodamine (SiR) family fluorophore that exhibits far-red fluorescence. The dye is characterized by a high extinction coefficient, resistance to fading, and minimal photo- and cytotoxicity, making it indispensable for super-resolution microscopy (STED, SIM, PALM/STORM) and long-term live-cell imaging. Unlike many cyanine dyes, SiRhius 650 is stable under alkaline conditions.

SiRhius 650 carboxylic acid can be used as a reference standard and, after activation, for the synthesis of SiRhius 650-containing biomolecules (proteins, peptides, amino-modified oligonucleotides, etc.).



Structure of SiRhius® 650 carboxylic acid



Absorption and emission spectra of SiRhius® 650

General properties

Appearance:	blue crystals
Molecular weight:	472.61
CAS number:	1426090-03-0
Molecular formula:	C ₂₇ H ₃₀ N ₂ O ₄ Si
IUPAC name:	3,7-bis(dimethylamino)-5,5-dimethyl-3'-oxo-3'H,5H-spiro[dibenzo[b, e]silole-10,1'-isobenzofuran]-6'-carboxylic acid
Solubility:	dichloromethane, ethyl acetate, methanol, acetonitrile, DMF
Quality control:	NMR ¹ H and HPLC-MS (95+%)
Storage conditions:	24 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.
Legal statement:	This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic products.

Spectral properties

Excitation/absorption maximum, nm:	646
ε, L·mol ⁻¹ ·cm ⁻¹ :	112000
Emission maximum, nm:	669
Fluorescence quantum yield:	0.57

CF₂₆₀:

0.07

CF₂₈₀:

0.02