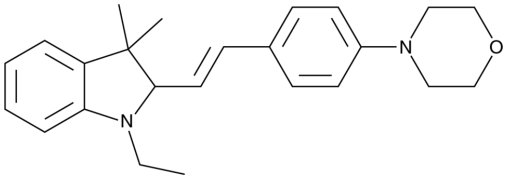
Product Data Sheet

Product Name: HCy-Lyso
Cat. No.: GC91751

Chemical Properties

Cas. No.	N/A		
Formula	$C_{24}H_{30}N_2O$	M.Wt	362.5
Solubility	Chloroform: Sparingly Soluble: 1-10 mg/ml	Storage	-20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			

Background

HCy-Lyso is a lysosome-specific fluorescent reporter for the detection of hydroxyl radicals. [1] It selectively fluoresces in low pH environments in the presence of hydroxy radicals over hypochlorite, superoxide, nitric oxide, or peroxynitrite radicals. HCy-Lyso (10 μM) displays lysosomal fluorescence in the presence of the ferroptosis inducers erastin or (1S,3R)-RSL3 , an effect that can be blocked by the ferroptosis inhibitor ferrostatin-1 , in 4T1 cells. HCy-Lyso displays excitation/emission maxima of 510/592 nm, respectively, in low pH environments in the presence of hydroxy radicals.

References:
[1].Zhong, L., Fu, D., Xu, J., et al.Rational design of a lysosome-targeted fluorescent probe for monitoring the generation of hydroxyl radicals in ferroptosis pathwaysRSC Adv.14(18)12864-12872(2024).

Caution: Product has not been fully validated for medical applications. For research use only.
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