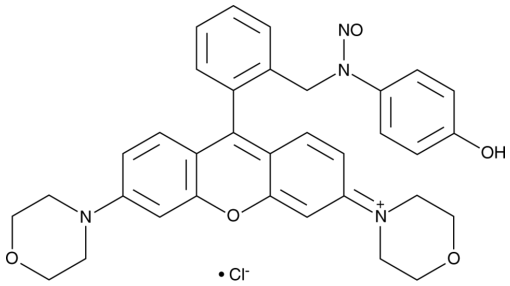
Product Data Sheet

Product Name: NO-Rosa5
Cat. No.: GC92039

Chemical Properties

Cas. No.			
Chemical Name	4-(9-(2-(((4-hydroxyphenyl)(nitroso)amino)methyl)phenyl)-6-morpholino-3H-xanthen-3-yl idene)morpholin-4-ium, monochloride		
SMILES	OC(C=C1)=CC=C1N(N=O)CC(C=CC=C2)=C2C(C(C=C3)=C(O4)C=C3N5CCOCC5)=C 6C4=C/C(C=C6)=[N+]7CCOCC\7.[Cl-]		
Formula	$C_{34}H_{33}N_4O_5$? Cl	M.Wt	613.1
Solubility		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

NO-Rosa5 is a photocontrollable nitric oxide (NO) donor for *in cellulo* and *ex vivo* use.[1] It is composed of the fluorescent dye rosamine, which functions as the light-harvesting group, and the NO-releasing moiety N-nitrosoaminophenol. Upon excitation of rosamine between 530-590 nm, photoinduced electron transfer from the NO-releasing moiety occurs, forming an unstable phenoxy radical. This radical then releases NO to form a stable quinoneimine product.

References:

[1]. Ieda, N., Hotta, Y., Kawaguchi, M., et al.In cellullo and ex vivo availability of a yellowish-green-

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light-controllable no releaserChem. Pharm. Bull.67(6)579-579(2019).