

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-ylidene)morpholin-4-ium, monochloride

SMILES OC(C=C1)=CC=C1N(N=O)CC(C=CC=C2)=C2C(C(C=C3)=C(O4)C=C3N5CCOCC5)=C6C4=C/C(C=C6)=[N+]7CCOCC\7.[Cl-]

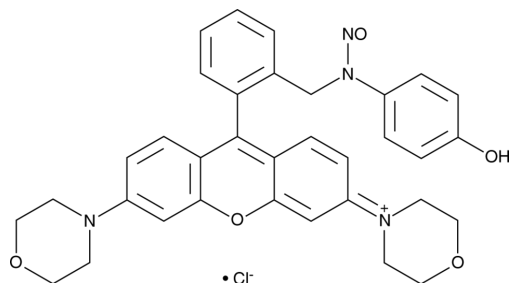
Formula $C_{34}H_{33}N_4O_5 \cdot Cl$ M.Wt 613.1

Solubility Storage $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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 cellulo and ex vivo availability of a yellowish-green-

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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

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