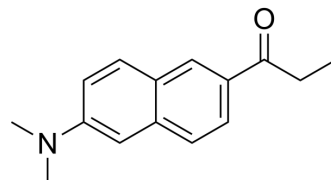


## Prodan

Cat. No.:	HY-D0074
CAS No.:	70504-01-7
Molecular Formula:	C <sub>15</sub> H <sub>17</sub> NO
Molecular Weight:	227.3
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 50 mg/mL (219.97 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.3995 mL	21.9974 mL	43.9947 mL
	5 mM	0.8799 mL	4.3995 mL	8.7989 mL
	10 mM	0.4399 mL	2.1997 mL	4.3995 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Prodan, a solvatochromic fluorophore, has been used as a microenvironment-sensitive membrane reporter. Based on the chemistry of Prodan, fluorescent nucleosides are designed and synthesized. The fluorescent nucleosides sensitively varied the Stokes shift values depending on the orientational polarizability of the solvent<sup>[1]</sup>.

### REFERENCES

[1]. Kazuki Tainaka, et al. PRODAN-conjugated DNA: synthesis and photochemical properties. J Am Chem Soc. 2007 Apr 18;129(15):4776-84.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA