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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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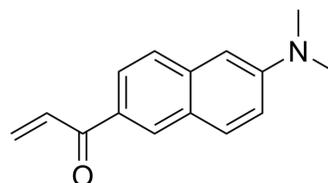
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Acrylodan

Cat. No.:	HY-W040230
CAS No.:	86636-92-2
Molecular Formula:	C ₁₅ H ₁₅ NO
Molecular Weight:	225.29
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 (221.94 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.4387 mL	22.1936 mL	44.3872 mL
	5 mM	0.8877 mL	4.4387 mL	8.8774 mL
	10 mM	0.4439 mL	2.2194 mL	4.4387 mL

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

BIOLOGICAL ACTIVITY

Description

Acrylodan, reacted with thiols, is sensitive to the local environmental dipolarity and dynamics within the binding pocket surrounding Cys³⁴[1][2].

In Vitro

Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs).
Purification and Labeling of Act1:

- 20-fold molar excess of acrylodan (Anaspec) was added to the polymerized actin and incubated on ice overnight.
- The labeled actin is centrifuged (2 h, 4 °C, 100,000 × g) then the pellet was resuspended in 10 mM Tris, pH 7.5, 0.5 mM β-mercaptoethanol, 0.2 mM CaCl₂, 50 μM ATP and dialyzed against the same buffer for 70 h at 4 °C.
- The supernatant was collected and the actin concentration and degree of labeling were calculated using the extinction coefficient 26,600 M⁻¹ cm⁻¹ for actin at 290 nm, 18,500 M⁻¹ cm⁻¹ or acrylodan at 385 nm, and 71,000 M⁻¹ cm⁻¹ for Alexa Fluor 488 at 494 nm.
- Acrylodan-labeled Act1 (^{Acryl}Act1_{NAT}) is dramatically different than that of EDTA-unfolded ^{Acryl}Act1 (^{Acryl}Act1I3), which has a very similar emission spectrum to CCT-bound ^{Acryl}Act1.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Sarah F Stuart, et al. A two-step mechanism for the folding of actin by the yeast cytosolic chaperonin. J Biol Chem. 2011 Jan 7;286(1):178-84.
- [2]. K Flora, et al. Unfolding of acrylodan-labeled human serum albumin probed by steady-state and time-resolved fluorescence methods. Biophys J. 1998 Aug;75(2):1084-96.
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Caution: Product has not been fully validated for medical applications. For research use only.

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