



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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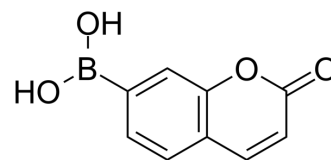
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Coumarin boronic acid

Cat. No.:	HY-W116606
CAS No.:	1357078-03-5
Molecular Formula:	C ₉ H ₇ BO ₄
Molecular Weight:	189.96
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 83.33 mg/mL (438.67 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		5.2643 mL	26.3213 mL	52.6427 mL
	5 mM		1.0529 mL	5.2643 mL	10.5285 mL
	10 mM		0.5264 mL	2.6321 mL	5.2643 mL

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

BIOLOGICAL ACTIVITY

Description

Coumarin boronic acid is a fluorescent probe. The excitation and emission wavelengths of coumarin boronic acid are set to 360 nm and 430 nm, respectively. Coumarin boronic acid can be used to monitor the formation of amino acid and protein hydroxyl peroxides in real time, which is beneficial for understanding the mechanisms of oxidative stress and protein post-translational modification^[1].

REFERENCES

[1]. Michalski R, et al. Real-time measurements of amino acid and protein hydroperoxides using coumarin boronic acid[J]. Journal of Biological Chemistry, 2014, 289(32): 22536-22553.

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

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