



# 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

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

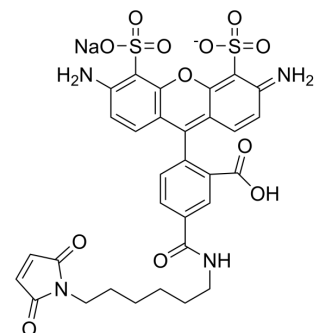
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

## AF 488 maleimide

|                           |  |
|---------------------------|--|
| <b>Cat. No.:</b>          | HY-D2381   |
| <b>Molecular Formula:</b> | C <sub>31</sub> H <sub>27</sub> N <sub>4</sub> NaO <sub>12</sub> S <sub>2</sub>  |
| <b>Molecular Weight:</b>  | 734.69   |
| <b>Target:</b>            | Fluorescent Dye  |
| <b>Pathway:</b>           | Others   |
| <b>Storage:</b>           | -20°C, protect from light, stored under nitrogen<br>* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen) |



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 3.67 mg/mL (5.00 mM; Need ultrasonic and warming)

| Concentration | Mass      |           |            |
|---------------|-----------|-----------|------------|
|               | 1 mg      | 5 mg      | 10 mg      |
| 1 mM          | 1.3611 mL | 6.8056 mL | 13.6112 mL |
| 5 mM          | 0.2722 mL | 1.3611 mL | 2.7222 mL  |
| 10 mM         | ---       | ---       | ---        |

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

### BIOLOGICAL ACTIVITY

#### Description

AF 488 maleimide is a thiol-reactive dye for labeling of protein SH groups, and it can be used to attach AF 488 fluorophore to proteins and peptides containing cysteine residues, as well as to other thiolated molecules. AF488 exhibits the  $\lambda_{em}$  and  $\lambda_{ex}$  wavelength of 520 nm and 470 nm, respectively<sup>[1][2]</sup>.

### REFERENCES

- [1]. Ellison CK, et al. Real-time microscopy and physical perturbation of bacterial pili using maleimide-conjugated molecules. Nat Protoc. 2019 Jun;14(6):1803-1819.
- [2]. Chakraborty S, Hu S Y, Wu S H, et al. The interaction affinity between vascular cell adhesion molecule-1 (VCAM-1) and very late antigen-4 (VLA-4) analyzed by quantitative FRET[J]. PLoS One, 2015, 10(3): e0121399.

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**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](mailto:tech@MedChemExpress.com)

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