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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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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

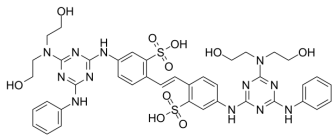
mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

Fluorescent brightener 28 (Technical Grade)

Cat. No.:	HY-W750459
CAS No.:	4404-43-7
Molecular Formula:	$C_{40}H_{44}N_{12}O_{10}S_2$
Molecular Weight:	916.98
Target:	Fluorescent Dye
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Fluorescent brightener 28 (Technical Grade) is a fluorescent whitening agent commonly used in the padding process of the textile industry. Fluorescent brightener 28 is capable of staining polysaccharides such as cellulose, and when the plasma membrane ruptures, it also weakly stains the cytoplasm and strongly stains the cell nucleus. Additionally, Fluorescent brightener 28 can be utilized to detect intracellular chitin in living cells. Fluorescent Brightener 28 also is a visible light emitting diode (LED)-light sensitive photoinitiator for free radical photopolymerizations[1][2][3].

REFERENCES

[1]. Levene R, et al. The Enhancement of Fluorescence During Pad-Batch Whitening of Cotton Cloth 1[J]. Textile Research Journal, 1981, 51(9): 559-563.

[2]. Nakazato Y,et al. Live Detection of Intracellular Chitin in Butterfly Wing Epithelial Cells In Vivo Using Fluorescent Brightener 28: Implications for the Development of Scales and Color Patterns. Insects. 2023 Sep 8;14(9):753.

[3]. Xiaoling Zuo, et al. Fluorescent Brighteners as Visible LED-Light Sensitive Photoinitiators for Free Radical Photopolymerizations. Macromol Rapid Commun. 2016 May;37(10):840-4.

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