

PRODUCT INFORMATION



Calcein UltraBlue™ AM

Item No. 20639

Synonym: Calcein UltraBlue™ Acetoxymethyl ester
FW: 788.7
Purity: ≥90%
Ex./Em. Max: 360/445 nm
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years
Special Conditions: Light sensitive

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Calcein UltraBlue™ AM is supplied as a solid. A stock solution may be made by dissolving the Calcein UltraBlue™ AM in the solvent of choice. Calcein UltraBlue™ AM is soluble in the organic solvent DMSO, which should be purged with an inert gas.

Description

Calcein UltraBlue™ AM is a fluorogenic dye that is used to assess cell viability. As the acetoxymethyl ester, Calcein UltraBlue™ AM is non-fluorescent but cell-permeant and is hydrolyzed to the fluorescent probe Calcein UltraBlue™ (Item No. 20638) by intracellular esterases. Calcein UltraBlue™ is retained by living cells and displays excitation/emission maxima of 360/445 nm, respectively. Calcein UltraBlue™ AM is a dark blue-emitting variant of the green fluorophore calcein AM (Item No. 14948), which has been used to evaluate cell viability and cytotoxicity.^{1,2}

References

1. Bratosin, D., Mitrofan, L., Pali, C., *et al.* Novel fluorescence assay using calcein-AM for the determination of human erythrocyte viability and aging. *Cytometry* **66**(1), 78-84 (2005).
2. Lévesque, A., Paquet, A., and Pagé, M. Measurement of tumor necrosis factor activity by flow cytometry. *Cytometry* **20**(2), 181-184 (1995).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897
[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM