PRODUCT INFORMATION



Calcein Blue AM

Item No. 20637

(CAS Registry No.:	168482-84-6		
F	Formal Name:	N-[2-[(acetyloxy)methoxy]-2-oxoethyl]-N-[(7-	0 0	
		hydroxy-4-methyl-2-oxo-2H-1-benzopyran-		
		8-yl)methyl]-glycine, (acetyloxy)methyl ester		
5	Synonym:	Calcein Blue Acetoxymethyl ester	Ń	
ľ	MF:	C ₂₁ H ₂₃ NO ₁₁	0.	
F	W:	465.4	HO, C, O	
F	Purity:	≥90%	\downarrow	
E	Ex./Em. Max:	360/445 nm		
5	Supplied as:	A solid		
5	Storage:	-20°C		
5	Stability:	≥4 years		
5	Special Conditions: Light sensitive			

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

Laboratory Procedures

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

Description

Calcein Blue AM is a fluorogenic dye that is used to assess cell viability. As the acetoxymethyl ester, Calcein Blue AM is non-fluorescent but cell-permeant and is hydrolyzed to the fluorescent probe Calcein Blue (Item No. 20636) by intracellular esterases. Calcein Blue is retained by living cells and displays excitation/emission maxima of 360/445 nm, respectively. Calcein Blue AM is a 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., Palii, 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.

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