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DATASHEET

Calcein-AM

Product overview

Name	Calcein-AM
Cat No	HB0720
Biological action	Dyes & stains
Purity	>90%
Description	Non- fluorescent, cell permeable dye

Images

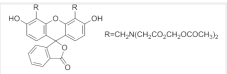
Biological Data

Biological description	Non- fluorescent and cell permeable dye. Hydrolysed into green fluorescent calcein by cytosolic esterases in living cells. Uses include monitoring chemotaxis, multidrug resistance and determining cell viability.

Solubility & Handling

Storage instructions	-20°C
Solubility overview	Soluble in DMSO (10mg/ml) or water
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	CAL-AM
Molecular Weight	994.86
Chemical structure	
Molecular Formula	$C_{46}H_{46}N_2O_{23}$
CAS Number	148504-34-1
PubChem identifier	390986
SMILES	CC(=O)OCOC(=O)CN(CC1=C(C=CC2=C1OC3=C(C24C5=CC=CC=C5C(=O)O4)C=CC(=C3CN(CC(=O)OCOC(=O)C)CC(=O)OCOC(=O)C)OC(=O)C)OC(=O)C)CC(=O)OCOC(=O)C
InChiKey	XKFSBWQWNMZWFA-UHFFFAOYSA-N

Chemical name	CAL-AM

References

Novel fluorescence assay using calcein-AM for the determination of human erythrocyte viability and aging.

Bratosin D *et al* (2005) Cytometry A 66(1)
PubMedID 15915509

The use of calcein acetomethylester (AM)-labelled polymorphonuclear cells in a polycarbonate filter chemotaxis assay.

De Gendt CM *et al* (1996) Clin Chim Acta 249(1-2)
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Membrane topology and glycosylation of the human multidrug resistance-associated protein.

Bakos E *et al* (1996) J Biol Chem 271(21)
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