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## DATASHEET

Calcein-AM

### Product overview

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

### Images



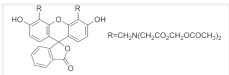
### Biological Data

<b>Biological description</b>	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.
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### Solubility & Handling

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

### Chemical Data

<b>Chemical name</b>	CAL-AM
<b>Molecular Weight</b>	994.86
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>46</sub> H <sub>46</sub> N <sub>2</sub> O <sub>23</sub>
<b>CAS Number</b>	148504-34-1
<b>PubChem identifier</b>	390986
<b>SMILES</b>	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

## 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)

**PubMedID** [8737602](#)

### **Membrane topology and glycosylation of the human multidrug resistance-associated protein.**

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

**PubMedID** [8647833](#)

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