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DATASHEET

Calcein Blue

Product overview

Name	Calcein Blue
Cat No	HB0721
Biological action	Dyes & stains
Description	Fluorescent metal ion indicator

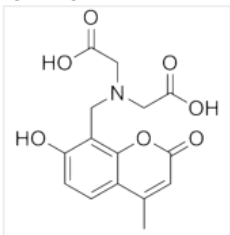
Biological Data

Biological description	Fluorescent metal ion indicator. Exhibits resistance to alkaline hydrolysis and displays similar calcium-binding properties to calcein. It fluoresces in both acidic and basic solutions when excited by the correct wavelength. Enhanced fluorescence is shown when bound to Ca (II), La (II) and Zn (II). Reduced fluorescence is shown when bound to Fe (II), Cu (II), Ni (II), Mn (II) and Co (II).
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Solubility & Handling

Storage instructions	-20°C
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

Molecular Weight	321.28
Chemical structure	
Molecular Formula	C ₁₅ H ₁₅ NO ₇
CAS Number	54375-47-2
PubChem identifier	0
SMILES	<chem>CC1=CC(=O)Oc2c(C[NH+])(CC([O-])=O)CC([O-])=O)c(O)ccc12</chem>

References

Constant Calcein Blue: An indicator for spectrofluorometric calcium determination.

Huitink GM (1987) Talanta 34(4)

PubMedID [18964328](#)

On the properties of Calcein Blue.

Huitink GM *et al* (1974) Talanta 21(12)

PubMedID 18961591

In vitro assay of mineralized-tissue formation on titanium using fluorescent staining with calcein blue.

Goto T *et al* (2003) Biomaterials 24(22)

PubMedID 12834583

Fluorimetric determination of calcium in serum with calcein blue.

Matsoukas KA *et al* (1988) Analyst 113(2)

PubMedID 3377170
