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## DATASHEET

Calcein Blue

### Product overview

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

### Biological Data

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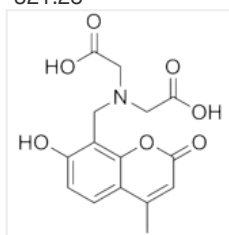
### Solubility & Handling

<b>Storage instructions</b>	-20°C
<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

**Molecular Weight**  
**Chemical structure**

321.28



**Molecular Formula**  
**CAS Number**  
**PubChem identifier**  
**SMILES**

C<sub>15</sub>H<sub>15</sub>NO<sub>7</sub>

54375-47-2

0

CC(=O)Oc2c(C[NH+](C([O-])=O)C([O-])=O)c(O)ccc12

### 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

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