**Product overview**

**Name**
Calcein Blue

**Cat No**
HB0721

**Short description**
Fluorescent metal ion indicator

**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).

**Biological action**
Dyes & stains

**Properties**

**Molecular Weight**
321.28

**Chemical structure**

![Chemical structure of Calcein Blue](image)

**Molecular Formula**
C₁₅H₁₅NO₇

**CAS Number**
54375-47-2

**PubChem identifier**
0

**SMILES**
CC1=CC(=O)Oc2c(C[NH+]C[[O-]][=O]CC([[O-]][=O]=O)c(O)ccc12

**Storing and Using Your Product**

**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.

**References for Calcein Blue**

**Constant Calcein Blue: An indicator for spectrofluorometric calcium determination.**


**PubMedID:**
18964328
On the properties of Calcein Blue.
PubMedID: 18961591

In vitro assay of mineralized-tissue formation on titanium using fluorescent staining with calcein blue.
PubMedID: 12834583

Fluorimetric determination of calcium in serum with calcein blue.
PubMedID: 3377170