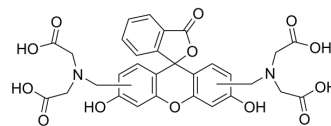


## Calcein (mixture of isomers)

<b>Cat. No.:</b>	HY-D1249
<b>CAS No.:</b>	154071-48-4
<b>Molecular Formula:</b>	C <sub>30</sub> H <sub>26</sub> N <sub>2</sub> O <sub>13</sub>
<b>Molecular Weight:</b>	622.53
<b>Target:</b>	Fluorescent Dye
<b>Pathway:</b>	Others
<b>Storage:</b>	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (160.63 mM; Need ultrasonic)  
1M NaOH : 10 mg/mL (16.06 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		1.6063 mL	8.0317 mL	16.0635 mL
	5 mM		0.3213 mL	1.6063 mL	3.2127 mL
	10 mM		0.1606 mL	0.8032 mL	1.6063 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (4.02 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: 2.5 mg/mL (4.02 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: 2.5 mg/mL (4.02 mM); Suspended solution; Need ultrasonic

### BIOLOGICAL ACTIVITY

#### Description

Calcein mixture of isomers is a calcium-dependent fluorescent molecule. Calcein mixture of isomers can be used to study bone metabolism (in vivo) and to stain depressed areas (in vitro). Calcein mixture of isomers can also be used for fluorometry and EDTA titration of calcium.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA