

PRODUCT INFORMATION

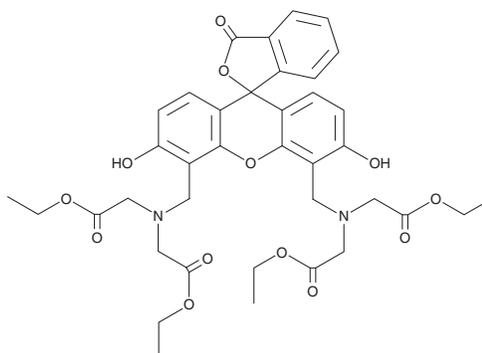


Calcein tetraethyl ester

Item No. 30754

CAS Registry No.: 1170856-93-5
Formal Name: N,N'-[(3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthene]-4',5'-diyl)bis(methylene)]bis[N-(2-ethoxy-2-oxoethyl)-glycine, 1,1'-diethyl ester

MF: C₃₈H₄₂N₂O₁₃
FW: 734.8
Purity: ≥95%
UV/Vis.: λ_{max}: 229 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Calcein tetraethyl ester is supplied as a crystalline solid. A stock solution may be made by dissolving the calcein tetraethyl ester in the solvent of choice, which should be purged with an inert gas. Calcein tetraethyl ester is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of calcein tetraethyl ester in these solvents is approximately 1 mg/ml.

Calcein tetraethyl ester is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, calcein tetraethyl ester should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Calcein tetraethyl ester has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Calcein tetraethyl ester is an intermediate in the synthesis of the fluorescent probe calcein AM (Item No. 14948).¹

Reference

1. Izumi, S., Urano, Y., Hanaoka, K., *et al.* A simple and effective strategy to increase the sensitivity of fluorescence probes in living cells. *J. Am. Chem. Soc.* **131**(29), 10189-10200 (2009).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

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CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897
[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM