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DATASHEET

FLUO 3-AM

Product overview

Name	FLUO 3-AM
Cat No	HB0772
Biological action	Dyes & stains
Purity	>85%
Description	Cell permeable Ca ²⁺ sensitive fluorescent indicator

Biological Data

Biological description	Cell permeable Ca ²⁺ sensitive fluorescent indicator ($K_d = 0.36 \mu\text{M}$). Metabolized by cytoplasmic esterases into FLUO-3.
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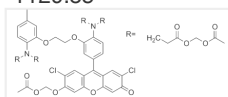
Solubility & Handling

Solubility overview	Soluble in DMSO (0.9mg/ml) or water
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
Chemical structure

1129.85



Molecular Formula
CAS Number
PubChem identifier
SMILES

C₅₁H₅₀Cl₂N₂O₂₃

121714-22-5

5086914

CC1=CC(=C(C=C1)N(CC(=O)OCOC(=O)C)CC(=O)OCOC(=O)C)OCCOC2=C(C=CC(=C2)C3=C4C=C(C(=O)C=C4OC5=CC(=C(C=C5)Cl)OCOC(=O)C)Cl)N(CC(=O)OCOC(=O)C)CC(=O)OCOC(=O)C

References

Loading and localization of Fluo-3 and Fluo-3/AM calcium indicators in sinapis alba root tissue.

Tretyn A *et al* (1997) Folia Histochem Cytobiol 35(1)

PubMedID [9090510](#)

Functional fluo-3/AM assay on P-glycoprotein transport activity in L1210/VCR cells by confocal microscopy.

Orlicki *et al* (2004) Gen Physiol Biophys 23(3)

PubMedID [15638123](#)

Measurement of the dissociation constant of Fluo-3 for Ca²⁺ in isolated rabbit cardiomyocytes using Ca²⁺ wave characteristics.

