

Product Information

Fluo-3, Purity $\geq 98\%$

Cat. No.: X24-09-YM1283

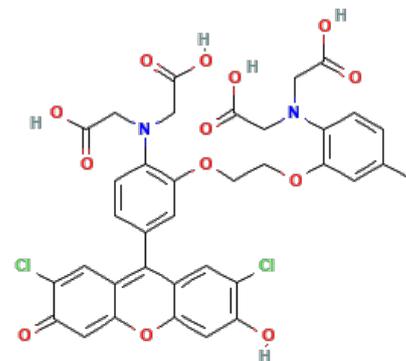
Size: 2 mg; 5 mg; 10 mg; 20 mg

MDL: MFCD00083337

CAS Number: 123632-39-3

Compound CID: 104978

Synonym: 123632-39-3; Fluo 3; Fluo3; 2-[2-[2-[Bis(carboxymethyl)amino]-5-(2,7-dichloro-3-hydroxy-6-oxoxanthen-9-yl)phenoxy]ethoxy]-*N*-(carboxymethyl)-4-methylanilino]acetic acid



This product is for research use only and is not intended for diagnostic use.

Product Information

Description	Fluo-3 is a fluorescent indicator for calcium used in flow cytometry. The molecular weight of the compound is 769.54, and its molecular formula is C ₃₆ H ₃₀ Cl ₂ N ₂ O ₁₃ .
Molecular Weight	769.54
Molecular Formula	C ₃₆ H ₃₀ Cl ₂ N ₂ O ₁₃
IUPAC Name	<i>N</i> -(carboxymethyl)-4-methylanilino]acetic acid
InChI	InChI=1S/C36H30Cl2N2O13/c1-18-2-4-24(39(14-32(43)44)15-33(45)46)30(8-18)51-6-7-52-31-9-19(3-5-25(31)40(16-34(47)48)17-35(49)50)36-20-10-22(37)26(41)12-28(20)53-29-13-27(42)23(38)11-21(29)36/h2-5,8-13,41H,6-7,14-17H2,1H3,(H,43,44)(H,45,46)(H,47,48)(H,49,50)
InChI Key	OZLGRUXZXMRXGP-UHFFFAOYSA-N
Canonical SMILES	CC1=CC(=C(C=C1)N(CC(=O)O)CC(=O)O)OCCOC2=C(C=CC(=C2)C3=C4C=C(C(=O)C=C4OC5=CC(=C(C=C5)Cl)O)Cl)N(CC(=O)O)CC(=O)O
Isomeric SMILES	C1=CN(C=C(C1=O)O)C[C@@H](C(=O)O)N
Form	Lyophilized powder
Purity	$\geq 98\%$
Impurities	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects.
Identity	Confirmed by NMR/HPLC/MS.
Stability	In its lyophilized form, the chemical remains stable for 36 months.



Quality Level	Research grade
Applications	Fluo-3 plays a key role in various cellular processes, including muscle contraction, neurotransmitter release, and apoptosis.
Storage	Store at -20°C, and keep desiccated.
