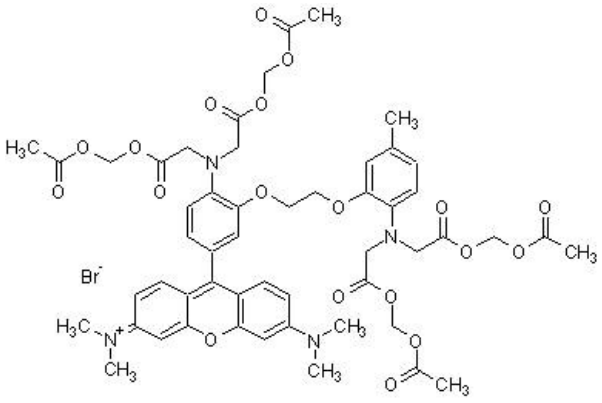
abcam

Product datasheet

Rhod-2 AM, fluorescent Ca2+ indicator ab142780

★★★★★ 3 Abreviews 20 References 1 Image

Overview

Product name	Rhod-2 AM, fluorescent Ca2+ indicator
Description	Cell-permeable fluorescent Ca^{2+} indicator
Purity	> 93%
General notes	The Ester Rhod-2 once hydrolyzed by cellular endogenous esterases will bind Ca2+ and localizes to mitochondria,
CAS Number	145037-81-6
Chemical structure	

Properties

Excitation	552nm
Emission	581nm
Chemical name	9-[4-[Bis[2-[(acetyloxy)methoxy]-2-oxoethyl]amino]-3-[2-[2-[bis[2-[(acetyloxy)methoxy]-2-oxoethyl]amino]-5-methylphenoxy]ethoxy]phenyl]-3,6-bis(dimethylamino)xanthylium bromide
Molecular weight	1123.96
Molecular formula	$C_{52}H_{59}BrN_4O_{19}$
PubChem identifier	25229581
Storage instructions	Store at -20°C. It is important to note that this product is reported to be light sensitive. Store In the Dark. Store under desiccating conditions.
Solubility overview	Soluble in DMSO to 1 mg/ml
Handling	Wherever possible, you should prepare and use solutions on the same day. However, if you need

to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

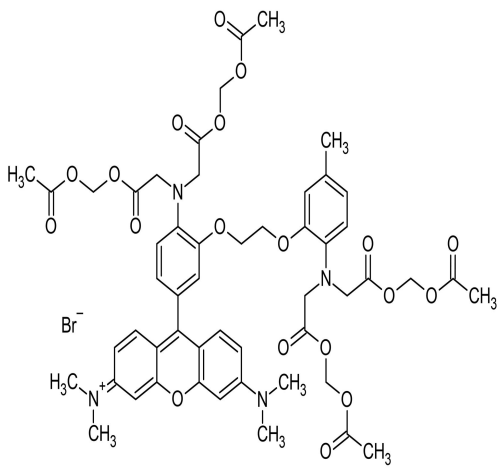
For more information on AM esters please visit our **AM esters FAQ page**.

Need more advice on solubility, usage and handling? Please visit our **frequently asked questions (FAQ) page** for more details.

SMILES CC1=CC(=C(C=C1)N(CC(=O)OCOC(=O)C)CC(=O)OCOC(=O)C)OCCOC2=CC(=C3C4=C(C=C(C=C4)N(C)C)OC5=C3C=CC(=C5)N(C)C)C=CC2=[N+](CC(=O)OCOC(=O)C)CC(=O)OCOC(=O)C.[Br-]

Source Synthetic

Images



Chemical Structure - Rhod-2 AM, fluorescent Ca^{2+} indicator (ab142780)

2D chemical structure image of ab142780, Rhod-2 AM, fluorescent Ca2+ indicator

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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