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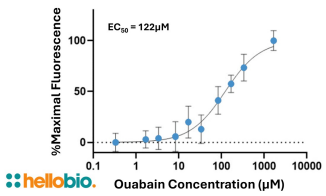
DATASHEET

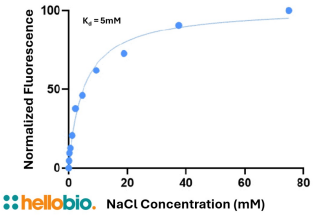
ING-2 AM

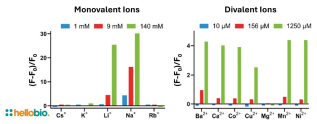
Product overview

Name	ING-2 AM
Cat No	HB9578
Alternative names	Asante Natrium Green, Ion Natrium Green, ANG, ING, ANG-1, ING-1
Biological description	Membrane permeable, yellow-green fluorescent (Excitation 525nm, Emission 545nm), intracellular sodium (Na^+) indicator (K_d = 20mM). Has improved cellular loading and significantly higher brightness than SBFI. Suitable for high-throughput screening applications targeting Na^+ channels, and non-selective monovalent cation channels due to its spectral properties and large dynamic range. Also compatible with fluorescence microscopy using common fluorescein, GFP or more ideally YFP filters.
Applications	fluorescence imaging, live cell imaging
Purity	>90%
Description	Yellow-green fluorescent membrane permeable sodium indicator.

Images







Biological Data

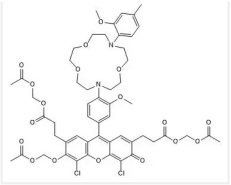
Application notes	Please follow our ING-2 AM Protocol

Solubility & Handling

Storage instructions	-20°
Solubility overview	DMSO
Handling	This compound is light sensitive; exposure to light may affect compound performance. We therefore recommend storing the solid material and any solutions in the dark and protecting from light.
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

Chemical name	6-[(acetyloxy)methoxy]-4,5-dichloro-9-[3-methoxy-4-[13-(2-methoxy-4-methylphenyl)-1,4,10-trioxa-7,13-diazacyclopentadec-7-yl]phenyl]-3-oxo-3H-xanthene-2,7-dipropanoic acid, 2,7-bis[(acetyloxy)methyl] ester
Molecular Weight	1084
Chemical structure	



Molecular Formula	$C_{53}H_{60}Cl_2N_2O_{18}$
CAS Number	1642554-49-1
PubChem identifier	163341954
SMILES	O=C(C)OCOC(CCC1=CC2=C(C3=CC(OC)=C(N4CCOCCOCCN(C5=C(OC)C=C(C)C=C5)CCOCC4)C=C3)C6=CC(CCC(OCOC(C)=O)=O)=C(OCOC(C)=O)C(Cl)=C6OC2=C(C1=O)Cl)=O
InChiKey	OTIAVQNFWAJQKZ-UHFFFAOYSA-N
Appearance	Solid
Excitation	525nm
Emission	545nm

References

Characterization of Procoagulant COAT Platelets in Patients with Glanzmann Thrombasthenia.

Aliotta A et al (2020) International journal of molecular sciences 21

PubMedID 33327658

Flow Cytometric Monitoring of Dynamic Cytosolic Calcium, Sodium, and Potassium Fluxes Following Platelet Activation.

Aliotta A et al (2020) Cytometry. Part A : the journal of the International Society for Analytical Cytology 97

PubMedID 32338820

Photophysical properties of Na(+) -indicator dyes suitable for quantitative two-photon fluorescence-lifetime measurements.

Naumann G et al (2018) Journal of microscopy 272

PubMedID 30191999