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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<sub>d</sub> = 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. For optimal cell loading, F-127 is available either as a 10% solution in water (HB16503) and 20%

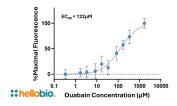
solution in DMSO (HB9631).

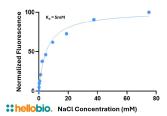
**Applications** fluorescence imaging, live cell imaging

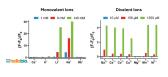
Purity >90%

**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
Storage of solutions Prepare

Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if

storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

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.

Shipping Conditions Stable for ambient temperature shipping. Follow storage instructions on receipt.

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use

### **Chemical Data**

Handling

**Important** 

Chemical name 6-[(acetyloxy)methoxy]-4,5-dichloro-9-[3-methoxy-4-[13-(2-methoxy-4-methylphenyl)-1,4,10-trioxa-7,1

3-diazacyclopentadec-7-yl]phenyl]-3-oxo-3H-xanthene-2,7-dipropanoic acid,

2,7-bis[(acetyloxy)methyl] ester

Molecular Weight Chemical structure 1084

 $\qquad \qquad \mathsf{SMILES} \qquad \qquad \mathsf{O=C(C)OCOC(CCC1=CC2=C(C3=CC(OC)=C(N4CCOCCOCCN(C5=C(OC)C=C(C)C=C5)CCOCC4) }$ 

InChiKey OTIAVQNFWAJQKZ-UHFFFAOYSA-N

AppearanceSolidExcitation525nmEmission545nm

### References

Characterization of Procoagulant COAT Platelets in Patients with Glanzmann Thrombasthenia.

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

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

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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