

## IPG-4 AM

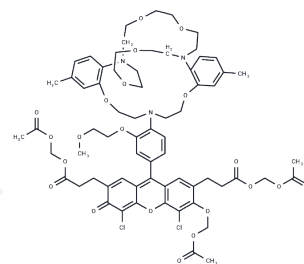
## Chemical Properties

CAS No. :

Formula: C<sub>67</sub>H<sub>79</sub>Cl<sub>2</sub>N<sub>3</sub>O<sub>21</sub>

Molecular Weight: 1333.27

Storage: Keep away from direct sunlight  
 Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
 Actual storage temperature shall be subject to the COA.



## Biological Description

Description	IPG-4 AM, a membrane-permeable fluorescent indicator, specifically binds to potassium ions (K <sup>+</sup> ) with a dissociation constant (K <sub>d</sub> ) of 7 mM. This compound exhibits excitation and emission maxima (λ) at 525 nm and 545 nm, respectively, and displays a 100:1 selectivity for K <sup>+</sup> over sodium ions (Na <sup>+</sup> ). It is utilized for real-time detection of intracellular K <sup>+</sup> levels, as well as monitoring extracellular K <sup>+</sup> changes in vivo.
Targets(IC50)	Others

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.750 mL	3.7502 mL	7.5004 mL
5 mM	0.150 mL	0.750 mL	1.5001 mL
10 mM	0.075 mL	0.375 mL	0.750 mL
50 mM	0.015 mL	0.075 mL	0.150 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481