

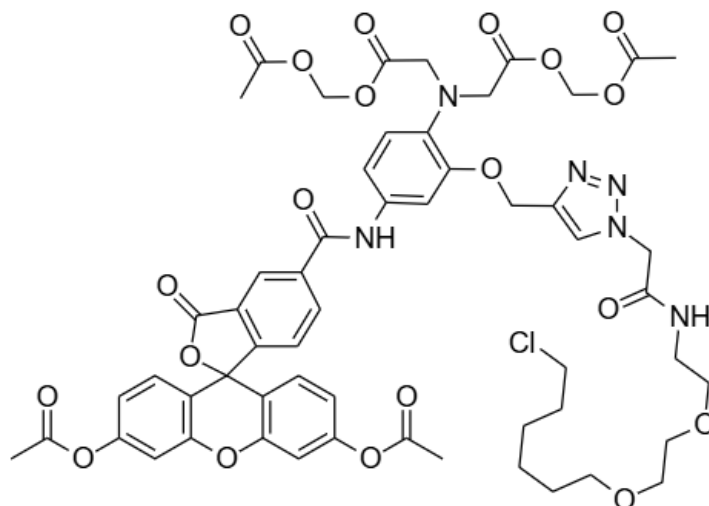
ION Thallos-HTL

Membrane Permeable, Green Fluorescent Localizable Thallium Indicator that can be selectively targeted to individual cells or organelles using HaloTag® technology. ION Thallos-HTL is a ligand for the HaloTag® enzyme. It can be used to conduct cell-specific potassium channel assays in mixed cell populations, or to probe organellar ion channels in their native environment.



Available in these sizes:

1381-HTL-F	25 µg x 10
1381-HTL-G	25 µg x 3



Description	
CAS number	N/A
PubChem CID	N/A
Molecular Weight	1170 g/mol
Solubility	DMSO
Storage	-20°C
Appearance	Clear to yellowish brown film or pellet
Container	1.5 mL polypropylene cryogenic vial

Absorbance Spectrum	Agilent Cary 60 UV-VIS Spectrophotometer
Solvent*	High Potassium (K ⁺) Buffer Solution, with 1.5 mM Ti ₂ SO ₄ added
Absorbance max	495 ± 3 nm

Fluorescence Spectrum	Horiba Jobin Yvon FluoroMax Plus Spectrofluorometer
Solvent*	High Potassium (K ⁺) Buffer Solution, with 1.5 mM Ti ₂ SO ₄ added
Excitation max	494 ± 3 nm
Emission max	524 ± 3 nm

*Note: AM Esters are hydrolyzed to the ion sensing form

LCMS	Agilent 1220 Infinity II
Column	Phenomenex 00d-4251-E0 Luna C ₁₈ , 4.6 x 100 mm, 100Å, 3 µm
UV-Vis Diode Array Detector	254 nm
Purity	≥ 90%
Single Quad MS Detector	ESI positive
Molecular Ion	1171.4 ± 0.5 m/z [M+H] ⁺ 586.2 ± 0.5 m/z [M+2H] ²⁺

¹ H NMR Spectrum	Bruker Avance 400
Solvent	CDCl ₃
Spectra	Product conforms to structure



Cells expressing HaloTag® are required when using this product.

50 mM Thallium Sulfate (Ti₂SO₄) solution is available for purchase on our website ([Catalog # 7040S](#)) for use with our thallium indicators.