4-trifluoromethyl-7-hydrazinyl-2H-chromen-2-one (TFCH) biomolecular fluorophore small molecule (tool compound)

Catalogue number: 160832
Sub-type: Fluorescent Probe
Images:

Contributor

Inventor: Susan Bane ; Kamalika Mukherjee
Institute: Binghamton University
Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: 4-trifluoromethyl-7-hydrazinyl-2H-chromen-2-one (TFCH) biomolecular fluorophore small molecule (tool compound)

Alternate name: TFCH

Class:
Conjugate:
Description: 4-trifluoromethyl-7-hydrazinyl-2H-chromen-2-one (TFCH) is a novel fluorescent biocompatible probe has been developed to detect oxidative damage in live cells and tissues in as little as 5 minutes. TO accomplish this, TFCH utilizes the irreversible reaction of radicals with biomolecules that result in the covalent addition of carbonyls to biomolecules. This probe has been shown to outperform other commercially available toxicity and reactive oxygen species assays. This probe has been shown to ...
Purpose:
Parental cell:
Organism:
Tissue:
Model:
Gender:
Isotype:
Reactivity:
Selectivity:
Host:
Immunogen:

Immunogen UNIPROT ID:
Sequence:
Growth properties:
Production details:
Formulation:
Recommended controls:
Bacterial resistance:
Selectable markers:
Additional notes:

Target details

Target:

Target alternate names:

Target background:

Molecular weight:

Ic50:

Applications

Application: Renal tissue imaging. Live cell screening
Application notes:

Handling

Format:
Concentration:
Passage number:
Growth medium:
Temperature:
Atmosphere:
Volume:
Storage medium:
Storage buffer:
Storage conditions:
Shipping conditions:

Related tools

Related tools:

References

References: Thompson et al. 2020. FEMS Microbiol Lett. 367(19):. PMID: 33016320.