

Zinquin *CAS#: 151606-29-0*

Catalog number: 21260

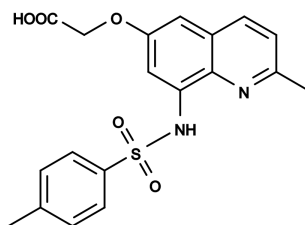
Unit size: 5 mg

Product Details

Storage Conditions	Freeze (< -15 °C), Minimize light exposure
Expiration Date	12 months upon receiving

Chemical Properties

Appearance	Light yellow solid
Molecular Weight	386.42
Soluble In	DMSO
Chemical Structure	



Spectral Properties

Excitation Wavelength	355 nm
Emission Wavelength	491 nm

Applications

Zinquin is a zinc-sensitive, cell-impermeable fluorescent probe. Zinc is the second most abundant transition metal in the body and it is essential as catalytic, structural and regulatory ion. Zinc ions are involved in homeostasis, immune responses, oxidative stress, apoptosis and aging. Zinc has been proposed to function as a conventional neurotransmitter for the presynaptic neuron and as a transmembrane signal to traverse the postsynaptic neuron. Aberrant zinc metabolism is associated with many neurological diseases including Alzheimer's disease, Parkinson's disease and epilepsy. The most suitable technique for in vivo monitoring of zinc has been proven to be fluorescence imaging.