mFluor™ Blue 585 acid

Catalog Number: 72101
Unit Size: 1 mg

Product Details

Storage Conditions	Freeze (< -15 °C), Minimize light exposure
Expiration Date	24 months upon receiving

Chemical Properties

Appearance	Solid
Molecular Weight	580.64
Soluble In	DMSO

Spectral Properties

Excitation Wavelength	491 nm
Emission Wavelength	578 nm

Applications

mFluor™ Blue 585 acid is a small molecule fluorescent dye with spectral properties comparable to R-phycoerythrin (RPE)-type conjugates when used with 488 nm excitation and red fluorescence detection. The dye is water-soluble and, when converted into appropriate reactive forms for conjugation, can be used to generate protein conjugates that are efficiently excited by 488 nm laser sources and detected using TRITC-compatible settings. These properties make mFluor™ Blue 585 derivatives suitable for applications such as flow cytometry and fluorescence-based assays.

Compared to protein-based fluorophores such as RPE, mFluor™ Blue 585 dyes are small organic molecules, which can facilitate more efficient conjugation to proteins. As part of AAT Bioquest's mFluor™ dye family, they are designed with large Stokes shifts and are optimized for protein labeling, particularly antibodies. These dyes are characterized by bright fluorescence, good photostability, and minimal quenching on proteins, and have been applied in multicolor workflows, including spectral flow cytometry using common excitation sources (e.g., 350, 405, 488, 555, 633, and 647 nm).