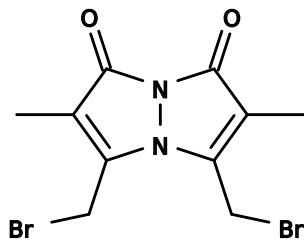


bBBr [Dibromobimane] *CAS 68654-25-1*Catalog Number: 634
Unit Size: 5 mg**Product Details**

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

Chemical Properties

Appearance	Solid yellow
Molecular Weight	350.01
Soluble In	DMSO
Chemical Structure	

**Spectral Properties**

Excitation Wavelength	394 nm
Emission Wavelength	490 nm

Applications

bBBr is one of the most popular thiol-reactive fluorescent tags, and is widely used to detect various thiol-containing biomolecules such as glutathione in cells. It is fluorogenic upon reacting with thiol-containing molecules. Dibromobimane is a unique fluorogenic crosslinking reagent for proteins because it is unlikely to fluoresce until both of its alkylating groups have reacted. It has been used to crosslink thiols in myosin, hemoglobin, *Escherichia coli* lactose permease and mitochondrial ATPase. Dibromobimane is also used to probe for the proximity of dual-cysteine mutagenesis sites in ArsA ATPase and to crosslink thiols in actin, myosin and P-glycoprotein.