

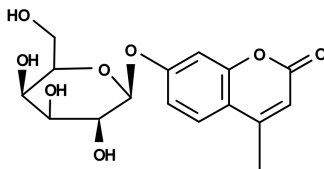
MUG [4-Methylumbelliferyl-beta-D-galactopyranoside] *CAS 6160-78-7*Catalog number: 14010, 14012
Unit size: 25 mg, 10 g**Product Details**

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

Chemical Properties

Appearance	Off-white solid
Molecular Weight	338.32
Soluble In	DMSO

Chemical Structure

**Spectral Properties**

Excitation Wavelength	341 nm
Emission Wavelength	441 nm

Applications

4-Methylumbelliferyl-beta-D-galactopyranoside (MUG) is a fluorogenic MU substrate for detecting galactosidase in cell extracts and purified enzyme preparations using a fluorescence microplate reader or fluorometer. The organic and inorganic esters and glycosides of 7-hydroxy-4-methylcoumarin (4-methylumbelliferone, MU) are among the most commonly used fluorogenic substrates. These substrates yield water-soluble blue fluorescent coumarin fluorophores. MU develops maximum fluorescence above pH 10.