4-Methylumbelliferyl N-acetyl-β-D-glucosaminide

Catalog Number M2133
Storage Temperature –20 °C

CAS RN 37067-30-4

**Product Description**
Molecular Formula: C_{18}H_{21}NO_{8}
Molecular Weight: 379.36

This product is a fluorogenic substrate for β-N-acetylhexosaminidase. When this product is used as a substrate, the released, free 4-methylumbelliferone is measured in alkaline pH. The fluorescence is measured in 0.1 M glycine buffer, pH 10, at an emission wavelength of 448 nm with excitation at 362 nm. The fluorescence at pH 10.3 is ~100 times that observed at pH 7.0.\(^1,2\)

This product is synthetically prepared.

**Precautions and Disclaimer**
This product is for R&D use only, not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

**Preparation Instructions**
This product is soluble in DMF (20 mg/ml). It is also reported to be soluble in DMSO (18 μM) and 2-methoxyethanol. A solution can also be prepared at 1 mg in 2.6 ml of 0.05 M citrate buffer, pH 5.\(^3\)

**References**