

## 4-MUG, Beta-galactosidase fluorogenic substrate

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Catalog	Unit
TBI3879-250MG	250 mg
TBI3879-1G	1 g

### Product Details

**Formal Name:** 4-Methylumbelliferyl  $\beta$ -D-galactopyranoside

**Alternate Names:** 4-MU-b-D-Gal; MUGal; MUG; MUGA

**Molecular Formula:** C<sub>16</sub>H<sub>18</sub>O<sub>8</sub>

**Formula Weight:** 338.30

**CAS Number:** 6160-78-7

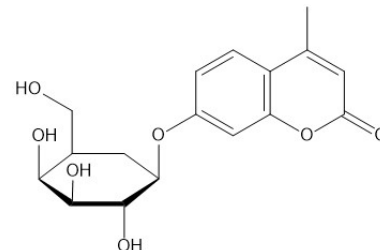
**Purity:** >97%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to 40 mg/ml) or in water (up to 1 mg/ml with warming)

**Storage:** -20°C / protect from light

**Stability:**  $\geq$  2 years.



### Applications

Beta-galactosidase fluorogenic substrate

### Functions

A versatile fluorogenic substrate for  $\beta$ -galactosidase for use in cell extracts or purified enzyme preparations. May be used as a fluorescent probe for identification of senescent cells based on lysosomal  $\beta$ -galactosidase activity. This substrate produces a water soluble blue fluorescent coumarin fluorophore. Ex: 342 nm; Em: 441 nm

### Application Procedures

First dissolved in DMSO (up to 40 mg/ml) or in water (up to 1 mg/ml with warming), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20° for up to 1 month.

**For research use only.**