

## Product Datasheet

### Purple-β-D-Gal (orb1943417)

|                        |                                                                                                                                                                                                                                                                                             |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>     | Purple-β-D-Gal, a chromogenic β-galactosidase substrate, undergoes enzymatic hydrolysis by intracellular β-galactosidase, yielding indoxyl molecules that oxidize and dimerize in situ to form water-insoluble indigo precipitates advantageous for β-galactosidase activity detection [1]. |
| <b>Storage</b>         | -20°C                                                                                                                                                                                                                                                                                       |
| <b>Note</b>            | For research use only                                                                                                                                                                                                                                                                       |
| <b>Formula</b>         | $C_{14}H_{16}INO_6$                                                                                                                                                                                                                                                                         |
| <b>Purity</b>          | 98.00%                                                                                                                                                                                                                                                                                      |
| <b>MW</b>              | 421.18                                                                                                                                                                                                                                                                                      |
| <b>CAS Number</b>      | 36473-36-6                                                                                                                                                                                                                                                                                  |
| <b>SMILES</b>          | <chem>O(C=1C=2C(NC1)=CC=C(I)C2)[C@@H]3O[C@H](CO)[C@H](O)[C@H](O)[C@H]3O</chem>                                                                                                                                                                                                              |
| <b>Expiration Date</b> | 12 months from date of receipt.                                                                                                                                                                                                                                                             |

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