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## Product Datasheet

### 2-Deoxy-D-Glucose, CAS [[154-17-6]] FBM-10-2171

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|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Artikelname              | 2-Deoxy-D-Glucose, CAS [[154-17-6]]                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Artikelnummer            | FBM-10-2171                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Hersteller Artikelnummer | 10-2171                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Alternativnummer         | FBM-10-2171-1G,FBM-10-2171-5G                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Hersteller               | Focus Biomolecules                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Kategorie                | Biochemikalien                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Produktbeschreibung      | Biologically active glucose analog...                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Molekulargewicht         | 164.16                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Reinheit                 | 98%                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Formulierung             | White solid                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| CAS Nummer               | [154-17-6]                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Formel                   | C6H12O5                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Anwendungsbeschreibung   | 2-Deoxy-D-glucose (2-DG) is a synthetic glucose analog with extensive biological effects. It is commonly thought of as an inhibitor of glycolysis, but its metabolic effects are wide-ranging. 2-DG competitively inhibits glucose uptake via its metabolite 2-Deoxy-D-glucose-6-phosphate, which inhibits hexokinase and phosphoglucose-isomerase leading to decreased ATP production, cell cycle blockage, decreased cell growth and ultimately cell death. <sup>1,2</sup> |