

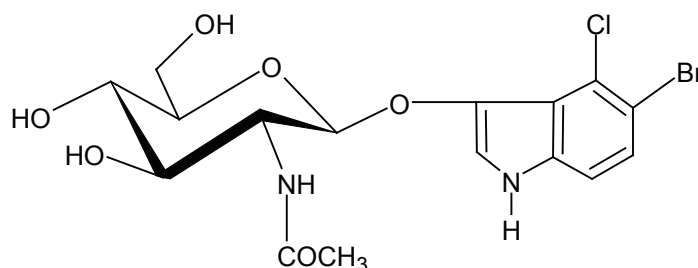


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**DATA SHEET**  
enzyme substrate

**5-BROMO-4-CHLORO-3-INDOLYL-N-ACETYL-β-D-GLUCOSAMINIDE**  
(X-N-ACETYL-β-D-GLUCOSAMINIDE; X-GLUCOSAMINIDE)



|                      |  |
|----------------------|--|
| Inalco code          | 1758-0150  |
| C.A.S. R.N.          | [4264-82-8]  |
| Applications         | Histochemical substrate for β-D-Acetylglucosaminidase. After enzymatic action it releases an insoluble blue chromophore. |
| Formula              | C <sub>16</sub> H <sub>18</sub> BrClN <sub>2</sub> O <sub>6</sub>  |
| Molecular Weight     | 449.7  |
| Appearance           | White or almost white powder   |
| Purity (TLC)         | ≥ 98%  |
| Specific Rotation    | [α] <sup>20</sup> <sub>D</sub> -73° ± 3 (c=1 in DMF/H <sub>2</sub> O 1:1)  |
| Water Content (K.F.) | ≤ 1%   |
| Solubility           | Clear and colorless solution (2% in DMF)   |
| <sup>1</sup> H-NMR   | Conforming to the structure  |
| Storage              | Store at 4° C; protect from light and humidity.<br>For long term storage: -20° C.  |
| Toxicity             | Toxicity unknown; avoid exposure.  |

References: Paul, L., et al., Am. J. Clin. Pathol., 44(3), 307-14, (1965)

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