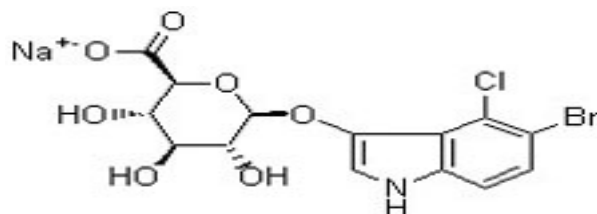


Product Information Sheet



X871 X-Gluc, Sodium Salt

Synonym: 5-Bromo-4-chloro-3-indolyl- β -D-glucuronic Acid, Sodium Salt
CAS: 129541-41-9
Formula: $C_{14}H_{12}BrClNaNO_7$
Molecular Wt: 444.6

Properties

Form: Powder
Appearance: White Powder
Application: Molecular Biology
Solubility: DMSO
Typical Working
Concentration:
Storage Temp: -20 to 0° C
Storage Temp of
Stock Solution: -20 to 0° C
Other Notes:

Application Notes

X-Gluc is used in similar fashion as X-Gal. X-Gluc is used to detect β -glucuronidase activity in genetically modified tissue, primarily plant cells. β -glucuronidase is encoded by the *gusA* (*uidA*) gene found in *Escherichia coli*. When present in non-modified cells, β -glucuronidase cleaves X-gluc, leaving glucuronic acid and an intermediate indoxyl. The intermediate indoxyl oxidizes and forms an insoluble blue dimer, 5,5'-dibromo-4,4'-dichloro-indigo, hence it is an ideal GUS activity indicator.

Revised August 2011 PN

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