PhytoTechnology Laboratories®

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Product Information Sheet



N618 4-Nitrophenyl-β-D-glucuronide

Synonym: PNPG; NPG; *p*-nitrophenyl-β-D-glucuronide CAS: 10344-94-2 Formula: C₁₂H₁₃NO₉ Molecular Wt: 315.2

Properties

Form:	Powder
Appearance:	White to Off-white
Application:	Molecular Biology; Chromophore
Solubility:	DMSO; Slightly soluble in Water
Typical Working Concentration:	Varies with application, should be determined by end user
Storage Temp:	-20 to 0°C

Application Notes

PNPG (Gus) is a chromogenic β -glucuronidase substrate. The GusA enzyme cleaves PNPG, yielding β -D-glucuronic acid and p-nitrophenol. When cleaved by GUS, *p*-nitrophenol has a maximum absorbance of 405nm (Aich et al., 2001) and results in a yellow coloration.

References

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