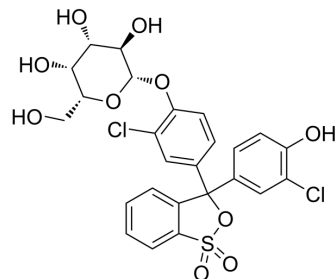


Chlorophenol red-β-D-galactopyranoside

Cat. No.:	HY-D1224
CAS No.:	99792-79-7
Molecular Formula:	C ₂₅ H ₂₂ Cl ₂ O ₁₀ S
Molecular Weight:	585.41
Target:	Fluorescent Dye
Pathway:	Others
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (213.53 mM; Need ultrasonic)
H₂O : 100 mg/mL (170.82 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.7082 mL	8.5410 mL	17.0820 mL
	5 mM	0.3416 mL	1.7082 mL	3.4164 mL
	10 mM	0.1708 mL	0.8541 mL	1.7082 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Chlorophenol red-β-D-galactopyranoside is a long-wavelength dye, which has been widely used for colorimetric assays. Chlorophenol red-β-D-galactopyranoside is also a β-galactosidase substrate commonly used in recombinant yeast oestrogenic assays^{[1][2]}.

REFERENCES

[1]. Sicard C, et al. A rapid and sensitive fluorimetric β-galactosidase assay for coliform detection using chlorophenol red-β-D-galactopyranoside. *Anal Bioanal Chem.* 2014 Sep;406(22):5395-403.

[2]. Els Vanderperren, et al. Oestrogenic activity of CPRG (chlorophenol red-β-D-galactopyranoside), a β-galactosidase substrate commonly used in recombinant yeast oestrogenic assays. *Biomarkers.* 2001;6(5):375-80.

Caution: Product has not been fully validated for medical applications. For research use only.

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