Ethylidene-4-nitrophenyl-a-D-Maltoheptaoside

Cat. No.: HY-112835

CAS No.: 96597-16-9

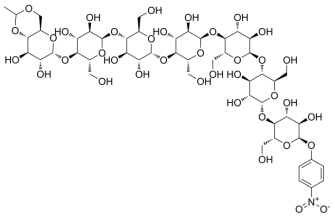
Molecular Formula: $C_{50}H_{77}NO_{38}$

Molecular Weight: 1300.13

Target: Amylases

Pathway: Metabolic Enzyme/Protease

Storage: 4°C, protect from light, stored under nitrogen
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (76.92 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	0.7692 mL	3.8458 mL	7.6915 mL
	5 mM	0.1538 mL	0.7692 mL	1.5383 mL
	10 mM	0.0769 mL	0.3846 mL	0.7692 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (1.92 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (1.92 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Ethylidene-4-nitrophenyl-a-D-Maltoheptaoside (pNP-G7) is the substrate of α-amylase. Ethylidene-4-nitrophenyl-a-D-Maltoheptaoside can be used to measure a-amylase activity[1].

REFERENCES

[1]. Lorentz K. Routine alpha-amylase assay using protected 4-nitrophenyl-1, 4-alpha-D-maltoheptaoside and a novel alpha-glucosidase. Clin Chem. 2000 May;46(5):644-9.

[2]. Lorentz K. Routine alpha-amylase assay using protected 4-nitrophenyl-1, 4-alpha-D-maltoheptaoside and a novel alpha-glucosidase. Clin Chem. 2000 May;46(5):644-9.

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

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