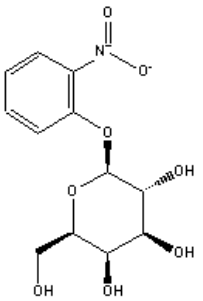
Catalog Number: 102473, 194030

o-Nitrophenyl-beta-D-galactopyranoside

Structure:



Molecular Formula: $C_{12}H_{15}NO_8$

Molecular Weight: 301.3

CAS #: 369-07-3

Synonyms: o-Nitrophenyl-β-D-galactoside; 2-Nitrophenyl-β-D-galactopyranoside; ONP-β-D-gal; ONPG

Physical Description: White to slightly yellow powder

Solubility: Soluble in water (10 mg/ml - clear, colorless solution; 15 mg/ml - clear, faint yellow solution; 20 mg/ml with heat - clear, yellowish solution)

Description: A cell culture component for molecular genetics. A chromogenic substrate for β-galactosidase.[2] Useful in the detection of *lacZ* activity.

Availability:

Catalog Number	Description	Size
102473	o-Nitrophenyl-β-D- galactopyranoside	500 mg 1 g 5 g 25 g
194030	o-Nitrophenyl-β-D- galactopyranoside, molecular biology reagent	250 mg 500 mg 1 g 5 g 25 g

References:

1. Cotton, M., et al., "Receptor-mediated transport of DNA into eukaryotic cells." *Methods Enzymol*., **v. 217**, 618-644 (1993).
2. Jagota, et al., *J. Food Sci*., **v. 46**, 161 (1981).
3. Sambrook, J., et al., *Molecular Cloning: A Laboratory Manual*, **2nd Ed**., p. 16.66, Cold Spring Harbor Laboratory: Cold Spring Harbor, NY (1989).
4. Sledziewski, A.Z., et al., Superimposition of temperature regulation on yeast promoters." *Methods Enzymol*., **v. 185**, 351-366 (1990).