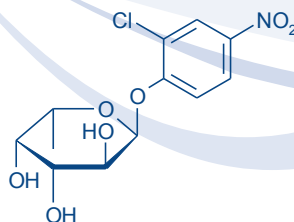
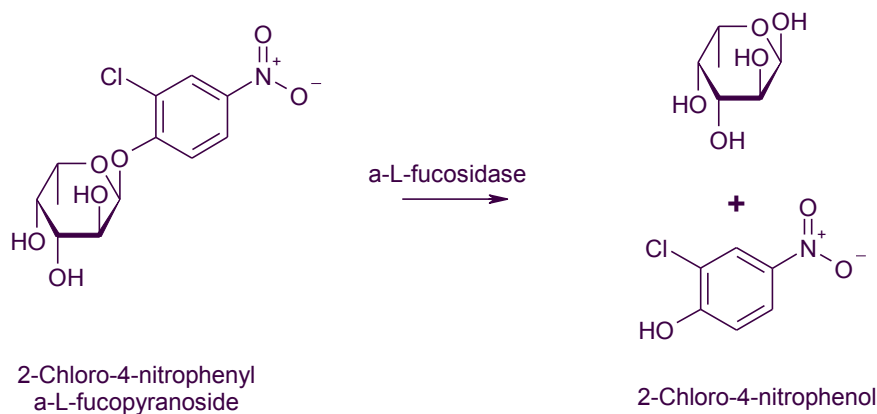


## 2-Chloro-4-nitrophenyl $\alpha$ -L-fucopyranoside

Product Code: EC05990  
 CAS Number: 157843-41-9  
 Chemical Formula:  $C_{12}H_{14}ClNO_7$   
 Molecular Weight: 319.69



2-Chloro-4-nitrophenyl  $\alpha$ -L-fucopyranoside (CNPF) is a substrate for the enzyme  $\alpha$ -L-fucosidase (AFU).



CNPF is hydrolysed by  $\alpha$ -L-fucosidase to fucose and 2-chloro-4-nitrophenol. The levels of AFU in human serum are a useful marker for diagnosing hepatocellular carcinoma (HCC), being significantly higher in patients with HCC than those with cirrhosis, other malignant neoplasms or control subjects.<sup>1</sup> A highly sensitive and specific assay monitoring the hydrolysis of CNPF by AFU has been developed for use in the early diagnosis of HCC.<sup>2</sup>

#### References:

1. MG Giardina et al, *Cancer*, **1992**, 70, 1044.
2. JJ Wang et al, *Clin. Chim. Acta*, **2004**, 347, 103.