



# Enzyme Alpha-amylase

**Systematic name** 4- $\alpha$ -D-glucan glucanohydrolase

**IUBMB nomenclature**  $\alpha$ -amylase

**CAS number** 9000-90-2

**IUBMB number** EC 3.2.1.1

**EC number** 232-565-6

## Synonyms

- glycogenase;  $\alpha$  amylase,  $\alpha$ -amylase; endoamylase; Taka-amylase A; 1,4- $\alpha$ -D-glucan glucanohydrolase

**Properties** Endohydrolysis of (1 $\rightarrow$ 4)- $\alpha$ -D-glucosidic linkages in polysaccharides containing three or more (1 $\rightarrow$ 4)- $\alpha$ -linked D-glucose units. Acts on starch, glycogen and related polysaccharides and oligosaccharides in a random manner; reducing groups are liberated in the  $\alpha$ -configuration. The term ' $\alpha$ ' relates to the initial anomeric configuration of the free sugar group released and not to the configuration of the linkage hydrolysed.