Product Data Sheet

Acylase

Cat # AC-01 Acylase (1000 U/mg material), Porcine kidney **Size:** 1 gram

Porcine acylase I, also known as amino acylase 1, is a zinc metalloprotein enzyme found in porcine (pig) kidney. It's a hydrolase that acts on carbon-nitrogen bonds in linear amides, particularly N-acetyl amino acids. Specifically, it catalyzes the hydrolysis of N-acyl L-α-amino acids, including N-acetyl-L-cysteine and S-alkyl-N-acetyl-L-cysteines, leading to the release of the free L-amino acid.

Acylase I can be used to catalyze the conversion of N-acetyl amino acids to enantiomerically pure L-amino acids, making it a valuable tool in various biochemical and biotechnological applications.

Source: Porcine Kidney

Physical Description: Freeze-dried powder

Unit Definition: That amount of enzyme wgucg catalyzes the hydrolysis of one micromole of N-Acetyl-L-Methionine per hour at 25°C

Solubility: Soluble in distilled water or buffers

Activity: 1,100 U/mg solid at 25°C

For in vitro research use only

Related Material available for ADI

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