Creative Enzymes®

Native Patella vulgata (keyhole limpet) Sulfatase

Cat. No. NATE-0688

Lot. No. (See product label)

Introduction

Description	Sulfatases EC 3.1.6.1 are enzymes of the esterase class that catalyze the hydrolysis of sulfate esters. These may be found on a range of substrates, including steroids, carbohydrates and proteins. Sulfate esters may be formed from various alcohols and amines. In the latter case the resultant N-sulfates can also be termed sulfamates. Sulfatases play important roles in the cycling of sulfur in the environment, in the degradation of sulfated glycosaminoglycans and glycolipids in the lysosome, and in remodelling sulfated glycosaminoglycans in the extracellular space. Together with sulfotransferases, sulfatases form the major catalytic machinery for the synthesis and breakage of sulfate esters.
Synonyms	EC 3.1.6.1; 9016-17-5; sulfatase; nitrocatechol sulfatase; phenolsulfatase; phenylsulfatase; p-nitrophenyl sulfatase; arylsulfohydrolase; 4-methylumbelliferyl sulfatase; estrogen sulfatase; arylsulfatase

Product Information

Source	Patella vulgata (keyhole limpet)
Form	essentially salt-free, lyophilized powder
EC Number	EC 3.1.6.1
CAS No.	9016-17-5
Activity	Type I, > 10 units/mg solid; Type II, > 5 units/mg solid.
Unit Definition	One unit will hydrolyze 1.0 µmole of p-nitrocatechol sulfate per hr at pH 5.0 at 37°C (30 min assay).

Storage and Shipping Information

Storage	−20°C