CREATIVE BIOMART®
Assay Kit

Sulfatase Colorimetric Activity Assay Kit

Product Information

Cat.No. Kit-2146

Product Overview

Sulfatase Activity Assay Kit provides a quick and easy way to determine sulfatase activity. The kit measures the hydrolysis of a sulfate ester to 4-nitrocatechol, which can be detected at 515 nm. The kit is suitable for measuring activity of purified enzyme as well as sulfatase from biological samples. The limit of detection is below 1 mU.

Size

100 assays

Description

Sulfatases (EC 3.1.6) are enzymes in the esterase class that catalyze the hydrolysis of sulfate esters from a wide range of biological molecules, including steroids, carbohydrates, and proteins. They can be found in intracellular and extracellular spaces and are distributed in a wide range of cells and tissues. Intracellular sulfatases are commonly found localized within the lysosome. Genetic defects in sulfatase can result in certain lysosomal storage disorders and abnormal expression can contribute to certain hormone-dependent cancers, such as breast and prostate cancer.

Applications

Measurement of sulfatase activity

Storage

Store kit at –20°C, protected from light. Briefly centrifuge small vials prior to opening. Read entire protocol before performing the assay.Sulfatase Assay Buffer, Sulfatase Substrate, Stop/Developing Solution, and 4-Nitrocatechol Standard: Bring to room temperature before use.Sulfatase: Reconstitute with 20 µl dH2O. Aliquot and store at -20°C. Avoid repeated freeze/thaw. Stable for two months. Keep on iceduring use.

Kit Components

Sulfatase Assay Buffer: 5 mlSulfatase Substrate: 4 mlStop/Developing Solution: 10 mlSulfatase: 1

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Vial4-Nitrocatechol Standard (0.5 mM): 1.5 ml

Detection method Absorbance (515 nm)

Compatible Sample Types

• Animal tissues such as liver, endometrium, and breast cancer• Adherent or suspension cells• Purified enzyme

Features & Benefits

• Simple, Sensitive & Rapid protocol• Highly-Sensitive: Detects as low as 1 mU sulfatase in various sample types

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