

Product Information

Sulfatase from abalone entrails

Type VIII, lyophilized powder

Catalog Number **S9754**

Storage Temperature $-20\text{ }^{\circ}\text{C}$

CAS RN 9016-17-5

EC 3.1.6.1

Synonyms: Aryl-sulfatase; Aryl-sulfate sulfohydrolase;
Phenolsulfatase

Product Description

Sulfonation and sulfation are important processes in the metabolism of compounds such as hormones, neurotransmitters, and drugs.^{1,2} Sulfonation and sulfation are catalyzed by various sulfotransferases. In turn, desulfonation and desulfation occur via the action of sulfatase.

The red abalone (*Haliotis rufescens*) has been reported to contain 5 sulfatases (arylsulfatases). These sulfatases each have approximate molecular mass values of ~ 43 kDa, by gel filtration chromatography.³

In vitro, this sulfatase product has been used for deconjugation of various compounds, including:

- Catechin/flavanoid metabolites^{4,5}
- Flavanone metabolites⁶
- Polyphenols/flavan-3-ols^{7,8}

This product is known to contain β -glucuronidase activity. For this reason, β -glucuronidase activity of this preparation is also determined.

Sulfatase activity: 20–40 units/mg solid

Unit definition: One unit will hydrolyze 1.0 μmole of *p*-nitrocatechol sulfate per hour at pH 5.0 at $37\text{ }^{\circ}\text{C}$, in a 30 minute assay.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

Preparation Instructions

Stock solutions of this product may be prepared in 0.2% NaCl aqueous solution. One publication reports preparation of 500 units/mL aqueous stock solutions of this product in 100 mM sodium acetate, pH 7.0, and storage of this stock solution in aliquots at $-80\text{ }^{\circ}\text{C}$.⁹

References

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