Product Information

Sulfatase from *Helix pomatia*

Type H-1

Catalog Number S9626

Storage Temperature –20 °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.

Several sulfatases occur in *Helix pomatia* (also known as Roman Snail).3,6 Early studies indicated the presence of at least two such sulfatases.3,4 One publication on two sulfatases isolated from *Helix pomatia* indicated molecular mass values of ~85 kDa by gel filtration chromatography. More recent work has postulated that *Helix pomatia* contains at least three sulfatases.6

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

- Environmental contaminants, e.g., bisphenol A7
- Hirudin8
- Vitamin E metabolites9
- β-adrenoreceptor agonists10
- Lignans from carob germ and carob seed11

This product is a lyophilized powder. It is known to contain β-glucuronidase activity. For this reason, β-glucuronidase activity of this product is also determined.

Sulfatase activity: ≥10,000 units/g solid

**Preparation Instructions**

One publication reports preparation of solutions of this sulfatase product at 100 units/mL in 200 mM sodium acetate buffer with 20 mM saccharic acid 1,4-lactone.12

**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.

**References**