



## Recombinant S-Adenosyl-L-Homocysteine Hydrolase (SAHH)

### Product Information

<b>Cat#</b>	BDE-045
<b>Description</b>	SAHH catalyzes the hydrolysis of S-adenosylhomocysteine to adenosine and homocysteine (Hcy). Hcy, a sulfur-containing amino acid, is recognized as an independent risk factor for cardiovascular disease. Among detection methods, the enzymatic cycling assay using SAHH is the fastest, most sensitive, and suitable for automated high-throughput analysis.
<b>Applications</b>	Used in homocysteine assay kits, participating in the SAH hydrolysis reaction to facilitate signal conversion.
<b>Enzyme Commission Number</b>	EC 3.3.1.1
<b>Form</b>	Lyophilized powder or solution
<b>Source</b>	Recombinant protein expression
<b>Activity</b>	140 U/mg
<b>Unit Definition</b>	One unit is defined as the amount of enzyme required to catalyze a reaction that causes a 0.01 decrease in the absorbance of NADH at 340 nm per minute under specified assay conditions (37 °C, pH 8.3).
<b>Molecular Weight</b>	44 kDa (SDS-PAGE)
<b>Purity</b>	≥ 90% by SDS-PAGE
<b>Optimum pH</b>	6.0-8.0
<b>Isoelectric Point</b>	6.15
<b>Storage Buffer</b>	PB buffer, pH 8.0
<b>Storage</b>	Store at 4°C for one year, or at -20°C or -80°C for 2-3 years (it is recommended to store in smaller portions and avoid repeated freeze-thaw cycles as much as possible).
<b>Notes</b>	It can be resuspended in purified water containing 20% glycerol and stored at 4°C for



**Creative Enzymes**

*Diagnostic Enzymes*

## **Recombinant S-Adenosyl-L-Homocysteine Hydrolase (SAHH)**

approximately one year; after aliquoting according to usage, it can be stored at -20°C for a longer period. Avoid repeated freeze-thaw cycles as much as possible.

---

Tel: 1-631-562-8517 1-516-512-3133

Email: [info@creative-enzymes.com](mailto:info@creative-enzymes.com)

Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA