

# Product Specification

## Uses

S-Adenosylmethionine (SAME) is a naturally occurring compound that is found in almost every tissue and fluid in the body. SAME is involved in many important processes. SAME levels may be reduced due to diet, aging and being deficient in either vitamin B12 or folate in your body.

## Description

Azendus comes in two dosage forms: 200 mg (Plant enteric coated pH release circular tablet) and 400 mg (Plant enteric coated pH release oblong tablet)

## INCI Designation

S-Adenosylmethionine (SAME)

## CAS No.

29908-03-0

## Physical and Chemical Properties

Empirical Formula: C<sub>15</sub>H<sub>22</sub>N<sub>6</sub>O<sub>5</sub>S  
Molecular Weight: 398.44 g/mol  
Chemical Structure:

## Specifications

Appearance: White to off-white powder  
Odor: Slight odor  
Heavy Metals (as Pb): Not more than 0.001%  
Arsenic (AS<sub>2</sub>O<sub>3</sub>): Not more than 0.0003%  
Assay (dry basis): 97.0% – 102%

## Solubility

Soluble in water.

## Stability

Stable in room temperature and low humidity.

## Recommended Daily Dose

As a dietary supplement, take 1-2 tablets per day or as recommended by your health care provider.

## Other Ingredients

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## Allergenic Ingredients

No sugar, no starch, no artificial flavors, no preservatives, sodium free, no wheat, no gluten, no corn, no soy, no dairy, yeast free, no lactose, no artificial colorant, no plasticizer.

## Physiological Function

- Supports the replenishment of normal healthy SAME levels.
- SAME's has extraordinary therapeutic benefits to assist the brain, liver and joint functions from various degenerative conditions.
- SAME supports brain function and neuronal health by boosting levels of glutathione (GSH) and enhancing the antioxidant power of superoxide dismutase (SOD)

## Absorption and Tissue Deposition

Most exogenous SAME is absorbed transcellularly in the small intestine, where the jejunum exhibits the greatest transport rate. S-Adenosylmethionine is absorbed from the small intestine following oral intake. As absorption is affected by food, it is best to take on an empty stomach. Bioavailability is low following oral intake.

Significant first-pass metabolism in the liver. Approximately 50% of S-Adenosylmethionine (SAME) is metabolized in the liver. SAME is metabolized to S-adenosylhomocysteine, which is then metabolized to homocysteine. Homocysteine can either be metabolized to cystathionine and then cysteine or to methionine. The cofactor in the metabolism of homocysteine to cysteine is vitamin B6. Cofactors for the metabolism of homocysteine to methionine are folic acid, vitamin B12 and betaine.

## Formulating Techniques

Natural GRAS Plant based enteric pH released coating, contains no plastic co-polymer.

## Side Effects

SAME is considered to be relatively nontoxic and likely safe for most people, particularly if taken orally. SAME can sometimes cause gas, vomiting, diarrhea, constipation, dry mouth, headache, mild insomnia, anorexia, sweating, dizziness, and nervousness, especially at higher doses. SAME can make some people with depression feel anxious. Individuals using SAME supplements should be aware of the possible complications attendant to their use. Do not exceed recommended dose. Storage: Keep out of reach of children. Store in a cool, dry place. Packaging: Aluminum- Aluminum tamper resistance blister card.