**Thiamine hydrochloride, vitamin cofactor ab143348**

### Overview

**Product name**  
Thiamine hydrochloride, vitamin cofactor

**Description**  
Vitamin cofactor

**Biological description**  

**Purity**  
> 99%

### Properties

**Chemical name**  
2-[3-[(4-Amino-2-methylpyrimidin-5-yl)methyl]-4-methyl-1,3-thiazol-3-ium-5-yl]ethanol chloride hydrochloride

**Molecular weight**  
337.27

**Chemical structure**

![Chemical structure image]

**Molecular formula**  
C_{12}H_{18}Cl_{2}N_{4}OS

**CAS Number**  
67-03-8

**PubChem identifier**  
6202

**Storage instructions**  
Store at +4°C. Store under desiccating conditions. The product can be stored for up to 12 months.

**Solubility overview**  
Soluble in water to 100 mM and in ethanol to 25 mM and in DMSO

**Handling**

Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our [frequently asked questions (FAQ) page](https://www.abcam.com/) for more details.

**SMILES**  
CC1=C(SC=+[N+]1CC2=CN=C(N=C2N)C)CCO.Cl.[Cl-]

**Source**  
Synthetic
Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE, NOT FOR USE IN HUMANS"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
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- We investigate all quality concerns to ensure our products perform to the highest standards

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