Product datasheet

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

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 for more details.

SMILES
CC1=C(SC=\([\text{N}+\]1CC2=CN=C(\text{N}=C2N)C)CCO.CI,\[\text{Cl}-\]

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
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
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- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors
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