Product datasheet
Caffeine ab120240

Overview

Product name: Caffeine
Description: PDE inhibitor. Adenosine antagonist.
Biological description: Psychostimulant. Adenosine A₁ and A₂A receptor antagonist. Inhibits cAMP phosphodiesterases. Activates ryanodine receptor and induces intracellular calcium release.
Purity: > 99%

Properties

Chemical name: 1,3,7-Trimethylxanthine
Molecular weight: 194.19
Chemical structure:

Molecular formula: C₈H₁₀N₄O₂
CAS Number: 58-08-2
PubChem identifier: 2519
Storage instructions: Store at Room Temperature. The product can be stored for up to 12 months.
Solubility overview: Soluble in water to 100 mM
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: O=C2c1n(C)cnc1N(C)C(=O)N2C
Source: Synthetic

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