

Rexar Technical Compound Datasheet

Product Name: Subbutiamine

Chemical Name: O-[2-[(4-amino-2-methylpyrimidin-5-yl)methyl]formylamino]ethyl] thio-3-[(4-amino-2-methylpyrimidin-5-yl)methyl]formylaminopropyl disulfide

CAS Number: 3286-46-2

PubChem CID: [3002120](#)

Synonyms:

- Arcalion
- Bisbutiamine
- Enerion
- Isobutyrylthiamine disulfide
- Thiamine disulfide derivative

Chemical Information

Molecular Formula C32H46N8O6S2

Molecular Weight 678.9 g/mol

IUPAC Name [2-[[4-[(2-Methyl-5-pyrimidinyl)methylamino]carbonyl]-1,3-thiazol-5-yl]methyl] disulfanyl]ethyl N-[(2-Methyl-5-pyrimidinyl)methyl]carbamate

SMILES CC1=CN=C(N=C1N)CNCCSSCCOC(=O)NCC2=CN=C(N=C2N)C

InChIKey BAWDYLVDEQMLSO-UHFFFAOYSA-N

Appearance Off-white to yellow powder

Solubility Soluble in ethanol and DMSO; limited solubility in water

Applications

- Used in research on thiamine analogues and bioavailability
- Analytical reference for synthetic vitamin B1 derivatives
- Applied in method development and compound stability testing
- Studied in preclinical settings for neurological compound research*

Storage & Handling

Storage Temperature Store at 2–8 °C in a dry and dark location

Handling Laboratory use only; wear appropriate PPE

Packaging Sealed packaging for research integrity

Additional Notes

- For research and analytical use only
- Not intended for use in humans or animals
- Refer to [PubChem CID 3002120](#) for structural and chemical reference

