

Product Name : Thiamine hydrochloride

Synonyms : Aneurine; Vitamin B1

Cat No. : M15563

CAS Number : 67-03-8

Molecular Formula : C₁₂H₁₈Cl₂N₄OS

Formula Weight : 337.27

Chemical Name : —

Description : Thiamine or vitamin B1 is a water-soluble vitamin of the B complex, its phosphate derivatives are involved in many cellular processes. Thiamine deficiency results in amyloid precursor protein immunoreactivity accumulated in swollen neurites within, or around lesions in rats, or in abnormal clusters in mice.

Pathway : Metabolic Enzyme/Protease

Target : Vitamin

Receptor : VB1

Solubility : DMSO: <1mg/ml; Water: 68mg/ml(201.62 mM); Ethanol: <1mg/ml

SMILES : Cl.[Cl-].CC1=C(CCO)SC=[N+]1CC1=CN=C(C)N=C1N

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1.Ahn IP, et al. Plant Physiol, 2005, 138(3), 1505-1515.

