

Benfotiamine

Catalog No: tcsc1054



Available Sizes

Size: 1g

Size: 5g



Specifications

CAS No:

22457-89-2

Formula:

$C_{19}H_{23}N_4O_6PS$

Pathway:

Others

Target:

Others

Purity / Grade:

>98%

Solubility:

H₂O : 0.67 mg/mL (1.44 mM; Need ultrasonic); DMSO : ≥ 50 mg/mL (107.19 mM)

Alternative Names:

S-Benzoylthiamine O-monophosphate

Observed Molecular Weight:

466.45

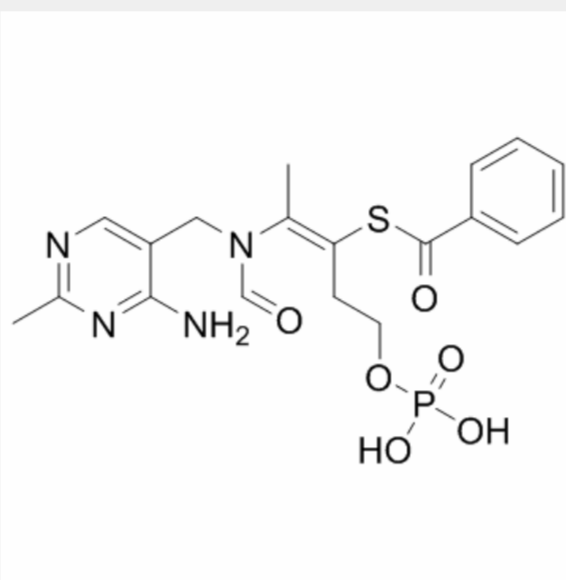
Product Description

Benfotiamine is a synthetic S-acyl derivative of thiamine (vitamin B1); an antioxidant dietary supplement.

IC50 value:

Target:

Benfotiamine, the lipid-soluble thiamine derivative used as a treatment for diabetic neuropathy, can inhibit three major pathways (the hexosamine pathway, the advanced glycation end product (AGE) formation pathway and the diacylglycerol (DAG) protein kinase C (PKC) pathway) of hyperglycemic damage and prevent experimental diabetic retinopathy. Benfotiamine is a synthetic S-acyl derivative of thiamine (vitamin B1) for treating sciatica and other painful nerve conditions. More effective at increasing thiamin levels in blood and tissues than water-soluble salts like the previous vitamin B1.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!