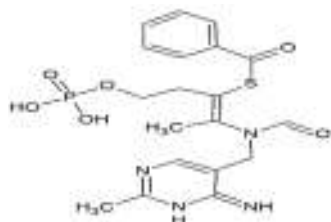


# Benfotiamine

**ALTERNATE NAME:** benzenecarbothioic acid, S-[2-[[[(4-amino-2-methyl-5-pyrimidinyl)methyl]formylamino]-1-[2-(phosphonoxy)ethyl]-1-propen-1-yl] ester  
enzoylthiamine monophosphate

**CATALOG #:** B3209-1G 1 g  
B3209-5G 5 g

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>19</sub>H<sub>23</sub>N<sub>4</sub>O<sub>6</sub>PS

**MOLECULAR WEIGHT:** 466.45

**CAS NUMBER:** 22457-89-2

**APPEARANCE:** White to off-white solid

**PURITY:** ≥98%

**SOLUBILITY:** 1 mg/ml in 0.1 M NH<sub>4</sub>OH

**DESCRIPTION:** Benfotiamine is an amphiphilic S-acyl thiamine derivative. It is a lipid-soluble vitamin. Benfotiamine contains a thiazole ring. It helps in the prevention of diabetic complications such as, retinopathy, neuropathy and nephropathy. Benfotiamine inhibits the synthesis of glycation end products (AGEs) in diabetes. Benfotiamine is considered as a nutraceutical product for the prevention of diabetic neuropathy.

**STORAGE TEMPERATURE:** -20°C. Protect from moisture

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**RELATED PRODUCTS:**

RAGE, human recombinant (4271)  
Biotinylated AGE-BSA (7929)  
AGE-BSA (2221)  
Biotinylated Glucose AGE-BSA-II (7930)

**DISCLAIMER:** *FOR RESEARCH USE ONLY! Not to be used on humans.*