Phone: 888-558-5227

651-644-8424

Fax: 888-558-7329 Email: getinfo@lktlabs.com

Web: lktlabs.com

Product Information

Product ID B1753 CAS No. 22457-89-2

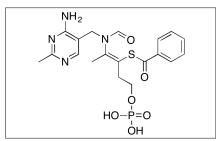
Chemical Name S-Benzoylthiamine O-monophosphate

Synonym

Formula C₁₉H₂₃N₄O₆PS

Formula Wt. 466.453 Melting Point ~200°C Purity ≥98%

Solubility



Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
B1753	250 mg	\$62.10
B1753	1 g	\$124.00
B1753	5 q	\$258.50

Store Temp Ambient Ship Temp Ambient

Description Benfotiamine is a synthetic, lipid-soluble derivative of the B vitamin thiamine. Benfotiamine exhibits antinociceptive, neuroprotective, and anti-inflammatory activities. In animal models, benfotiamine inhibits pain signaling in a prostatic acid phosphatase-dependent manner. In vitro, benfotiamine decreases production of amyloid-8 (AB) and downregulates activity of glycogen synthase kinase 3 (GSK3). In macrophages, this compound inhibits LPS-induced activation of phospholipase A2 (PLA2), release of leukotrienes, prostaglandins, and thromboxane B2 (TxB2), and also suppresses oxidative stress. Benfotiamine also decreases oxidative stress induced by streptozocin in animal models. TEST!!!!!!

References Hurt JK, Coleman JL, Fitzpatrick BJ, et al. Prostatic acid phosphatase is required for the antinociceptive effects of thiamine and benfotiamine. PLoS One. 2012;7(10):e48562. PMID: 23119057.

> Sun XJ, Zhao L, Zhao N, et al. Benfotiamine prevents increased B-amyloid production in HEK cells induced by high glucose. Neurosci Bull. 2012 Oct;28(5):561-6. PMID: 22961478.

Shoeb M, Ramana KV. Anti-inflammatory effects of benfotiamine are mediated through the regulation of the arachidonic acid pathway in macrophages. Free Radic Biol Med. 2012 Jan 1;52(1):182-90. PMID: 22067901.

Wu S. Ren J. Benfotiamine alleviates diabetes-induced cerebral oxidative damage independent of advanced glycation endproduct, tissue factor and TNF-alpha. Neurosci Lett. 2006 Feb 13;394(2):158-62. PMID: 16260089.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.