



Catalog Number:	MC11097	Product Type:	Small Molecule
Bio-Activity:	TBK1 inhibitor; Antidiabetic	CAS #:	68302-57-8
Research Categories:	Immunology, obesity, liver disease, diabetes, inflammation, cancer	Chemical Name:	2-Amino-7-(1-methylethyl)-5-oxo-5H-[1]benzopyrano[2,3-b]pyridine-3-carboxylic acid
Solubility:	Soluble in DMSO (up to 60 mg/ml).	Molecular Formula:	C ₁₆ H ₁₄ N ₂ O ₄
Purity:	> 98%	Molecular Weight:	298.3
Format:	Powder	Ship Temp:	Ambient
Storage:	Room Temperature		

Application Notes

Description/Data:

Improves obesity-related metabolic dysfunction in mouse models [1]. Increases thermogenesis and weight loss, decreases steatosis and improves insulin sensitivity. Inhibits TANK-binding kinase 1 (TBK1) and IKK ϵ (IC₅₀=1.2 μ M) [2]. Clinically useful in the treatment of aphthous ulcers [3]. Inhibits prostate tumor metastasis by targeting IKK ϵ /TBK1/NF κ B signaling [4].

References:

- 1) L Koch Nat. Rev. Endocrinol. 2013 9:185
- 2) SM Reilly et al. Nat. Med. 2012 19:313
- 3) SA Nasry et al. J. Clin. Exp. Dent. 2016 8:e517
- 4) C Cheng et al. Theranostics 2018 8:4633

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