



Amlexanox

Data Sheet

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:	C16H14N2O4
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/NFkB 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

FOR RESEARCH USE ONLY

NEUROMICS' REAGENTS ARE FOR IN VITRO AND CERTAIN NON-HUMAN IN VIVO EXPERIMENTAL USE ONLY AND NOT INTENDED FOR USE IN ANY HUMAN CLINICAL INVESTIGATION, DIAGNOSIS, PROGNOSIS, OR TREATMENT. THE ABOVE ANALYSES ARE MERELY TYPICAL GUIDES. THEY ARE NOT TO BE CONSTRUED AS BEING SPECIFICATIONS. ALL OF THE ABOVE INFORMATION IS, TO THE BEST OF OUR KNOWLEDGE, TRUE AND ACCURATE. HOWEVER, SINCE THE CONDITIONS OF USE ARE BEYOND OUR CONTROL, ALL RECOMMENDATIONS OR SUGGESTIONS ARE MADE WITHOUT GUARANTEE, EXPRESS OR IMPLIED, ON OUR PART. WE DISCLAIM ALL LIABILITY IN CONNECTION WITH THE USE OF THE INFORMATION CONTAINED HEREIN OR OTHERWISE, AND ALL SUCH RISKS ARE ASSUMED BY THE USER. WE FURTHER EXPRESSLY DISCLAIM ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.-V2/08/2012