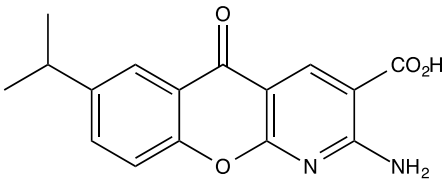
Catalog # 10-1435

Amlexanox

CAS# 68302-57-8

2-Amino-7-(1-methylethyl)-5-oxo-5H-[1]benzopyrano[2,3-b]pyridine-3-carboxylic acid

Lot # X105810



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 IKKε (IC_{50}=1.2 μM).[2] Clinically useful in the treatment of aphthus ulcers.[3] Inhibits prostate tumor metastasis by targeting IKKε/TBK1/NFκB signaling.[4]

1) Koch *et al.* (2013), *Obesity: Teaching an old drug new tricks – amlexanox targets inflammation to improve metabolic dysfunction;* Nat. Rev. Endocrinol., **9** 185
2) Reilly *et al.* (2013), *An inhibitor of the protein kinases TBK1 and IKK-ε improves obesity-related metabolic dysfunctions in mice*; Nat. Med., **19** 313
3) Nasry *et al.* (2016), *Different modalities for treatment of recurrent aphthous stromatitis. A Randomized clinical trial*; J. Clin. Exp. Dent. **8** e517
4) Cheng *et al.* (2018), *Aphthous ulcer drug inhibits prostate tumor metastasis by targeting IKKε/TBK1/NFκB signaling*; Theranostics **8** 4633

PHYSICAL DATA

Molecular Weight:	298.29
Molecular Formula:	$C_{16}H_{14}N_2O_4$
Purity:	>98%
	NMR: (Conforms)
Solubility:	Soluble in DMSO (60 mg/ml). Compound is not soluble in ethanol.
Physical Description:	White solid
Storage and Stability:	Store as supplied at room temperature for up to 2 years from the date of purchase. Store solutions in DMSO at -20ºC for up to 3 months.

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