1. PHYSICAL AND CHEMICAL PROPERTIES

- Batch Molecular Formula: $C_{16}H_{14}N_2O_4$
- Batch Molecular Weight: 298.29
- Physical Appearance: White solid
- Solubility: DMSO to 100 mM
- Storage: Store at -20°C
- Batch Molecular Structure:

\[ \text{Structure Image} \]

2. ANALYTICAL DATA

- HPLC: Shows 99.8% purity
- $^1$H NMR: Consistent with structure
- Mass Spectrum: Consistent with structure
- Microanalysis:
  - Carbon: Theoretical 64.43, Found 64.53
  - Hydrogen: Theoretical 4.73, Found 4.95

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Product Information

Product Name: Amlexanox
Catalog No.: 4857  Batch No.: 1

CAS Number: 68302-57-8
IUPAC Name: 2-Amino-7-(1-methylethyl)-5-oxo-5H-[1]benzopyrano[2,3-b]pyridine-3-carboxylic acid

Description:
Selective inhibitor of TANK-binding kinase 1 (TBK1) and IKKε (IC₅₀ values are ~1-2 μM). Displays no effect on IKKα or IKKβ at these concentrations. Reversibly lowers weight, increases insulin sensitivity, and reduces inflammation and steatosis in three mouse models of obesity. Exhibits antiallergic activity; inhibits the release of histamine from rat mast cells. Also binds to Hsp90 and inhibits C-terminal chaperone activity in vitro.

Physical and Chemical Properties:
Batch Molecular Formula: C₁₅H₁₅N₂O₄
Batch Molecular Weight: 298.29
Physical Appearance: White solid
Minimum Purity: >99%

Stability and Solubility Advice:
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

References:


Storage: Store at -20°C
Solubility & Usage Info:
DMSO to 100 mM

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