

ALK/HDAC-IN-1

Chemical Properties

CAS No. :

Formula: C₂₇H₃₁N₅O₄

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	ALK/HDAC-IN-1 is a dual inhibitor that targets both ALK and HDAC6, demonstrating IC ₅₀ values of 16 nM and 1.03 μM, respectively. This compound exhibits anti-tumor activity.
Targets(IC ₅₀)	HDAC,ALK
In vitro	ALK/HDAC-IN-1 inhibits the proliferation of cancer cells A549, HepG2, MCF7, U87MG, and H2228 with IC ₅₀ values of 0.33, 0.59, 0.55, 0.62, and 0.44 μM, respectively. Additionally, ALK/HDAC-IN-1 inhibits the CYP450 enzyme CYP2C9, with an IC ₅₀ of 2.65 μM.
In vivo	ALK/HDAC-IN-1, administered at doses ranging from 0 to 20 mg/kg via intraperitoneal injection for 21 days, effectively suppresses tumor growth in A549 xenografts in BALB/c mice, with no significant toxicity observed.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481