

K-80003

Chemical Properties

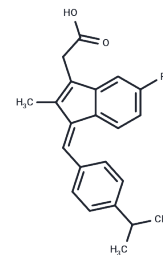
CAS No. : 1292821-90-9

Formula: C₂₂H₂₁FO₂

Molecular Weight: 336.4

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	K-80003(TX-803) is a potent retinol-like X-receptor-alpha regulator that inhibits TRXRα-dependent Akt activation and tumor cell growth.
Targets(IC50)	Akt,RAR/RXR
In vitro	In MCF-7 cells, cotreatment with K-80003 inhibits the TNFα-induced colocalization of tRXRα with p85α in the cytoplasm, leading to tRXRα nuclear localization. Western blotting reveals that the K-80003-stabilized tetrameric form of tRXRα is exclusively present in the nuclear fraction, while the tRXRα monomer is distributed in both nuclear and cytoplasmic fractions [1].
In vivo	K-80003, a potent inhibitor of AKT activation by all-trans-retinoic acid, exhibits enhanced efficacy in inhibiting tRXRα-dependent AKT activation and tRXRα tumor growth in animals. K-80003 has high affinity for RXRα but lacks COX inhibitory activity [2].

Solubility Information

Solubility	DMSO: 60 mg/mL (178.36 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2.5 mg/mL (7.43 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9727 mL	14.8633 mL	29.7265 mL
5 mM	0.5945 mL	2.9727 mL	5.9453 mL
10 mM	0.2973 mL	1.4863 mL	2.9727 mL
50 mM	0.0595 mL	0.2973 mL	0.5945 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Chen L, et al. Modulation of nongenomic activation of PI3K signalling by tetramerization of N-terminally-cleaved RXR α . Nat Commun. 2017 Jul 17;8:16066.

Zhou H, et al. NSAID sulindac and its analog bind RXR α and inhibit RXR α -dependent AKT signaling. Cancer Cell. 2010 Jun 15;17(6):560-73.

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