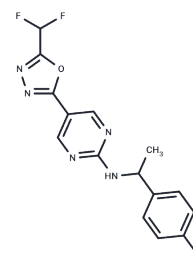


SE-7552

Chemical Properties

CAS No. : 2243575-79-1
 Formula: C₁₅H₁₂F₃N₅O
 Molecular Weight: 335.28
 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	SE-7552, a derivative of 2-(difluoromethyl)-1,3,4-oxadiazole (DFMO), serves as an orally active, highly selective non-hydroxamate HDAC6 inhibitor, boasting an IC ₅₀ of 33 nM. It exhibits over 850-fold selectivity against all other known HDAC isozymes. Demonstrating efficacy in vivo, SE-7552 effectively inhibits the growth of multiple myeloma. Additionally, it functions as an anti-obesity agent in diet-induced obese mice [1] [2].
Targets(IC ₅₀)	HDAC
In vivo	Administered as a single oral gavage at 30 mg/kg, SE-7552 significantly elevates acetylated α -tubulin levels in mice for over 24 hours, without affecting the acetylation of H3, a Class I HDAC inhibition biomarker [1]. When combined with pomalidomide (1 mg/kg, daily intraperitoneal injection) and given orally at 10 mg/kg daily, SE-7552 markedly delays tumor growth and enhances survival in mice with human H929 MM cells compared to pomalidomide alone [1]. SE-7552 demonstrates excellent pharmacokinetics, with a maximum exposure of 597 ng/ml and a half-life of 7.2 hours following a single oral dose of 5 mg/kg in mice [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9826 mL	14.9129 mL	29.8258 mL
5 mM	0.5965 mL	2.9826 mL	5.9652 mL
10 mM	0.2983 mL	1.4913 mL	2.9826 mL
50 mM	0.0597 mL	0.2983 mL	0.5965 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.

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