Data Sheet (Cat.No.T203682)

TargetMol

TET-13

Chemical Properties

CAS No. :

Formula: C15H16N2O3S

Molecular Weight: 304.36

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	TET-13 is a positive allosteric modulator of the GABAA receptor with an EC50 of 5.65 μM, which is more potent than Etomidate (EC50: 9.29 μM). It exhibits strong anesthetic effects in both mice and rats, with an ED50 of 0.48 mg/kg in mice and 0.69 mg/kg in rats.
Targets(IC50)	GABA Receptor
In vitro	TET-13 (1 mg/mL, 0-30 min) is rapidly metabolized in the plasma of SD rats, with a half-life (T 1/2) of 0.48 minutes.
In vivo	TET-13 exhibits potent anesthetic effects in both mice and rats, with an ED50 of 0.48 mg/kg and 0.69 mg/kg respectively, through intravenous administration (mice: 1.2 mg/kg, rats: 1.725 mg/kg). It offers a quicker recovery than etomidate. In rats, TET-13 (1.38 mg/kg, intravenous) does not significantly inhibit serum corticosterone, found at a concentration of 970.12 nM. Continuous infusion of TET-13 at 22 mg/kg/h results in shorter recovery and ambulation times compared to etomidate after 0.5, 1, and 2 hours in rats.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2856 mL	16.4279 mL	32.8558 mL
5 mM	0.6571 mL	3.2856 mL	6.5712 mL
10 mM	0.3286 mL	1.6428 mL	3.2856 mL
50 mM	0.0657 mL	0.3286 mL	0.6571 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.

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