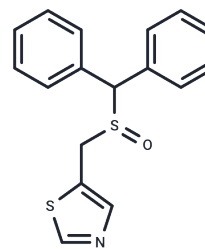


(S)-CE-123

Chemical Properties

CAS No. : 2378384-49-5
 Formula: C₁₇H₁₅NOS₂
 Molecular Weight: 313.44
 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	(S)-CE-123 is an innovative and highly selective atypical dopamine transporter (DAT) inhibitor, exhibiting an EC ₅₀ of 2.76 μM in uptake inhibition assays performed in HEK293 cells with stable expression of human DAT isoforms. As a Modafinil analogue, (S)-CE-123 can cross the blood-brain barrier and enhances cognitive and motivational functions in experimental animals [1] [2].
Targets(IC50)	Dopamine Receptor
In vivo	(S)-CE-123 administered at doses of 6.0, 12.0, and 24.0 mg/kg via intraperitoneal injection 30 minutes prior to testing significantly mitigated the effects of TBZ (Tetrabenazine) on lever pressing and food intake. When administered alone, (S)-CE-123 produced no significant effects compared to vehicle-treated rats [1]. Animal Model: Trained rats (adult male Sprague-Dawley rats) [1] Dosage: 6.0, 12.0, 24.0 mg/kg Administration: IP; 30 min before testing Result: Attenuated the effects of TBZ (1.0 mg/kg) on lever pressing and chow intake.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1904 mL	15.952 mL	31.904 mL
5 mM	0.6381 mL	3.1904 mL	6.3808 mL
10 mM	0.319 mL	1.5952 mL	3.1904 mL
50 mM	0.0638 mL	0.319 mL	0.6381 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

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