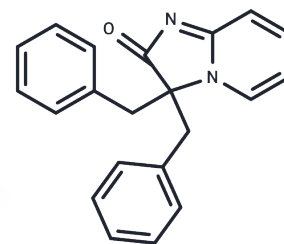


ZSET-845

## Chemical Properties

CAS No. : 324077-62-5  
 Formula: C<sub>21</sub>H<sub>18</sub>N<sub>2</sub>O  
 Molecular Weight: 314.38  
 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	ZSET-845 is an enhancer of cognitive which enhances choline acetyltransferase activity in the hippocampus in the rat.
Targets(IC50)	Others,Acyltransferase
In vitro	In NB-1 cells, ZSET-845 has no inhibitory action on AChE activity and enhances choline acetyltransferase (ChAT) activity[1].
In vivo	Administered orally, ZSET-845 at doses of 0.01, 0.1, and 1 mg/kg significantly improves scopolamine-induced performance impairments. In the hippocampus, ZSET-845 enhances ChAT (choline acetyltransferase) activity, with increases noted at 112%, 113.8%, and 108.7% for the respective doses, when compared to control rats receiving a matched vehicle [1]. Moreover, ZSET-845 at concentrations of 1 or 10 mg/kg not only mitigates learning deficits in a passive avoidance task but also elevates ChAT activity within the basal forebrain, medial septum, and hippocampus. Additionally, it boosts the count of ChAT-immunoreactive cells in the medial septum among Ab-treated rats back to levels observed in vehicle-injected control rats [2].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1809 mL	15.9043 mL	31.8086 mL
5 mM	0.6362 mL	3.1809 mL	6.3617 mL
10 mM	0.3181 mL	1.5904 mL	3.1809 mL
50 mM	0.0636 mL	0.3181 mL	0.6362 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

Yamaguchi Y, et al. Ameliorative effects of azaindolizone derivative ZSET845 on scopolamine-induced deficits in passive avoidance and radial-arm maze learning in the rat. *Jpn J Pharmacol.* 2001 Nov;87(3):240-4.

Yamaguchi Y, et al. Antiamnesic effects of azaindolizone derivative ZSET845 on impaired learning and decreased ChAT activity induced by amyloid-beta 25-35 in the rat. *Brain Res.* 2002 Aug 2;945(2):259-65.

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