Product Data Sheet

Product Name: SERT/5-HT-IN-1
Cat. No.: GC79780

Chemical Properties

Cas. No.	3120534-54-2		
Formula	$C_{15}H_{18}N_2S$	M.Wt	258.38
Solubility	DMSO: 25 mg/mL (96.76 mM; Need ultrasonic)	Storage	Store at 4°C, away from moisture
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Caution: Product has not been fully validated for medical applications. For research use only.
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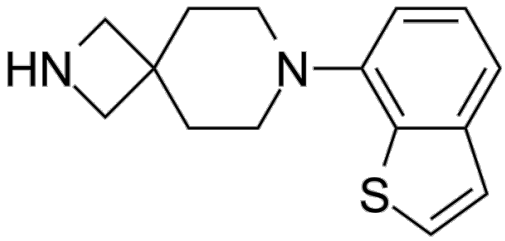
Structure



Background

SERT/5-HT-IN-1 (compound D17) is an orally active and potent dual target inhibitor of SERT/5-HT3A (SERT IC_{50} = 1.5 nM, NET IC_{50} = 49 nM, DAT IC_{50} = 91 nM, 5-HT3A K i = 12 nM). SERT/5-HT-IN-1 has an IC_{50} of 39 nM to 5-HT3A. SERT/5-HT-IN-1 has a lower risk of liver, kidney, and cardiac toxicity. SERT/5-HT-IN-1 can be used for research on depressive disorders [1].

References:

[1]. Zheng J, et al. Design, synthesis, and biological profiling of novel aryl-spirocyclic diamine derivatives with potential antidepressant-like properties. Eur J Med Chem. 2026 Jan 5;301:118198.

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