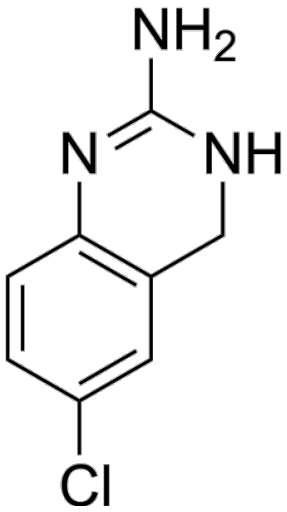
Product Data Sheet

Product Name: A6CDQ
Cat. No.: GC79790

Chemical Properties

Cas. No.	1005550-46-8		
Formula	$C_8H_8ClN_3$	M.Wt	181.62
Solubility		Storage	Store at -20°C
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.		

Structure



Background

A6CDQ is a human organic cation transporter (hOCT) inhibitor with antidepressant-like activity that can cross the blood-brain barrier. A6CDQ potently inhibits the transport activities mediated by hOCT1, hOCT2 and hOCT3. A6CDQ exhibits significant antidepressant-like effects in the mouse tail suspension test. A6CDQ can be used in studies related to depression [1].

In Vivo, A6CDQ (0.1-30 mg/kg; i.p.; single dose) exhibits antidepressant-like activity in the mouse tail suspension test with an ED50 of 0.23 mg/kg[1].

Caution: Product has not been fully validated for medical applications. For research use only.
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In Vitro, A6CDQ (10-8-10-3 M; 1 min) inhibits hOCT1, hOCT2, and hOCT3-mediated MPP+ transport in stably transfected HEK293 cells, with IC_{50} values of 3.0 μM (hOCT1), 16.4 μM (hOCT2), and 3.9 μM (hOCT3)[1].

References:

[1]. Iyer KA, et al. The 2-Amino-3,4-dihydroquinazoline Molecular Scaffold as Novel OCT3 Inhibitor. ACS Chem Neurosci. 2026;17(7):1375-1386.

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