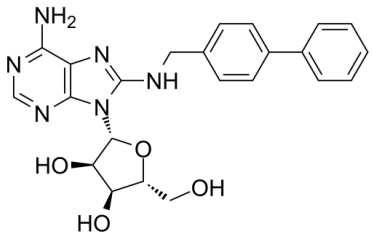
Data Sheet

Product Name:	CNT2 inhibitor-1
Cat. No.:	CS-0066911
CAS No.:	880155-70-4
Molecular Formula:	C23H24N6O4
Molecular Weight:	448.47
Target:	Others
Pathway:	Others
Solubility:	DMSO : 75 mg/mL (167.24 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

CNT2 inhibitor-1 is a potent concentrative nucleoside transporter 2 Inhibitor **(CNT2)**, with an **IC_{50}** of 640 nM for hCNT2. IC50 & Target: IC50: 640 nM (hCNT2)[1][2]. **In Vitro:** CNT2 inhibitor-1 (compound 48) exhibits 81-fold more potent inhibitory activity than the parent compound 12. In addition, CNT2 inhibitor-1 exhibits inhibitory activity 1500-fold more potent than that of 2′-deoxy-5-fluorouridine, phlorizin, and 7,8,3′-trihydroxyflavone, which are well-known hCNT2 inhibitors[1]. CNT2 inhibitor-1 (compound 1) is a potent inhibitor with poor solubility[2].

References:

[1]. Tatani K, et al. Identification of 8-aminoadenosine derivatives as a new class of human concentrative nucleoside transporter 2 inhibitors. ACS Med Chem Lett. 2015 Jan 28;6(3):244-8.

CAIndexNames:

Adenosine, 8-[([1,1'-biphenyl]-4-ylmethyl)amino]- (9CI)

SMILES:

OC[C@@H]1[C@H]([C@H]([C@H](N2C(NCC3=CC=C(C4=CC=CC=C4)C=C3)=NC5=C2N=CN=C5N)O1)O)O

Tel: 732-484-9848 Fax: 888-484-5008 E-mail: sales@ChemScene.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA