
Product Data Sheet

Product Name: Synucleozid

Cat. No.: GC39510

Chemical Properties

Cas. No. 502139-01-7

SMILES N=C(C1=CC2=C(C=C1)C=C(C3=CC=C(NC4=CC=C(C(N)=N)C=C4)C=C3)N2)NFormula C₂₂H₂₀N₆ M.Wt 368.43

Solubility Soluble in DMSO 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**

Synucleozid (NSC 377363) is a potent inhibitor of the SNCA mRNA that encodes α -synuclein protein (IC₅₀=1.5 μ M). Synucleozid selectively targets the α -synuclein mRNA 5' UTR at the designed IRE site, decreases the amount of SNCA mRNA loaded into polysomes and thereby inhibits SNCA translation. Synucleozid has the potential for the investigation of Parkinson's disease[1].

[1]. Zhang P, et al. Translation of the intrinsically disordered protein α -synuclein is inhibited by a small molecule targeting its structured mRNA. Proc Natl Acad Sci U S A. 2020 Jan 21;117(3):1457-1467.

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

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