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## Product Data Sheet

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Product Name: Ribocil B (Ribocil S enantiomer)

Cat. No.: GC32385

### Chemical Properties

Cas. No. 1825355-55-2

SMILES O=C1N=C([C@H]2CCCN(CC3=CN=C(NC)N=C3)C2)NC(C4=CC=CS4)=C1

Formula  $C_{19}H_{22}N_6OS$  M.Wt 382.48

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

Ribocil-B is the active S-isomer of ribocil which can inhibit flavin mononucleotide (FMN) with a KD of 6.6 nM.

Ribocil-B (S-isomer) is a tight binder to the FMN riboswitch and ribocil-A (R-isomer) does not similarly interact and display antibiotic activity[1].

[1]. John A. Howe, et al. Atomic resolution mechanistic studies of ribocil: A highly selective unnatural ligand mimic of the E. coli FMN riboswitch.

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

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