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Data Sheet

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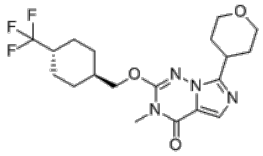
Product Name	:	DSR-141562
Cat. No.	:	PC-47111
CAS No.	:	2007975-22-4
Molecular Formula	:	$C_{19}H_{25}F_3N_4O_3$
Molecular Weight	:	414.429
Target	:	Phosphodiesterase (PDE)
Solubility	:	10 mM in DMSO



Biological Activity

DSR-141562 (DSR141562) is a potent, selective orally available and brain-penetrant phosphodiesterase 1 (**PDE1**) inhibitor with IC50 of 97.6, 43.9 and 431.8 nM for human PDE1A, PDE1B and PDE1C, respectively.
DSR-141562 shows 2.2- and 9.8-fold selectivity for PDE1B over PDE1A and PDE1C, but has no effect or only weak inhibitory effects for other PDE families (PDE2A, IC50=2480 nM).
DSR-141562 elevated the tissue level of cGMP in mouse striatum and frontal cortex, as well as cGMP level in the monkey CSF.
DSR-141562 demonstrated efficacy in animal models for schizophrenia, DSR-141562 (3–30 mg/kg) inhibited methamphetamine-induced locomotor hyperactivity in rats.

References

Enomoto T, et al. ***J Pharmacol Exp Ther.*** 2019 Dec;371(3):692-702.

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