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## RepSox

产品编号: D50818

CAS: 446859-33-2

分子式: C<sub>17</sub>H<sub>13</sub>N<sub>5</sub>

纯度: ≥98%

InChi: InChI=1S/C<sub>17</sub>H<sub>13</sub>N<sub>5</sub>/c1-11-4-2-5-16(20-11)17-12(10-19-22-17)13-7-8-14-15(21-13)6-3-9-18-14/h2-10H,1H<sub>3</sub>,1H,19,22

InChi Key: LBPKYPHYHDKKRFS-UHFFFAOYSA-N

Smiles: CC1=CC=CC(=N1)C1NN=CC=1C1C=CC2=NC=CC=C2N=1

外观: 固体粉末

作用通路: TGF-β Receptor

溶解性: DMSO up to 100 mM

保存条件: Store in dry, dark place for one year.

产品介绍: RepSox (E-616452 or SJN 2511) is a highly potent, selective inhibitor of the TGF-β type I receptor ALK5 with IC<sub>50</sub> of 23 nM and 4 nM for ATP binding to ALK5 and ALK5 autophosphorylation, respectively. It has good selectivity for ALK5 over a range of kinases, including p38 MAPK, JNK1 and GSK3 (IC<sub>50</sub> > 16 μM). RepSox is able to successfully replace Sox2 in reprogramming by inhibiting transforming growth factor-β (Tgf-β) signaling, which in turn induces Nanog expression. Effect of RepSox inducing reprogramming does not require chromatin remodeling. RepSox is found to be efficient at generating iPSCs.