

Product Name	: GKT137831
Synonyms	: Setanaxib;GKT-137831
Cat No.	: M10823
CAS Number	: 1218942-37-0
Molecular Formula	: C ₂₁ H ₁₉ ClN ₄ O ₂
Formula Weight	: 394.85
Chemical Name	: 1H-Pyrazolo[4,3-c]pyridine-3,6(2H,5H)-dione, 2-(2-chlorophenyl)-4-[3-(dimethylamino)phenyl]-5-methyl-
Description	: GKT137831 (Setanaxib, GKT-137831) is a potent, selective, dual NADPH oxidase Nox1/4 inhibitor with K _i of 110/140 nM, 15-fold less potent on Nox2 and 3-fold less potent on Nox5, and no affinity for xanthine oxidase; attenuates liver fibrosis and ROS production in both SOD1 ^{mu} and WT mice, suppresses ROS production and NOX and fibrotic gene expression, but not Rac1 activity, in SOD1 ^{mut} and WT in hepatic stellate cells (HSCs). Diabetes Phase 2 Clinical
Pathway	: Membrane Transporter/Ion Channel
Target	: NADPH
Receptor	: NOX1;NOX4
Solubility	: DMSO: ≥ 37 mg/mL
SMILES	: CN(C)C1=CC(C2=C(C(N(C3=CC=CC=C3Cl)N4)=O)C4=CC(N2C)=O)=CC=C1
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Jiang JX, et al. Free Radic Biol Med. 2012 Jul 15;53(2):289-96.| 2. Aoyama T, et al. Hepatology. 2012 Dec;56(6):2316-27.| 3. Gray SP, et al. Circulation. 2013 May 7;127(18):1888-902.| 4. Laleu B, et al. J Med Chem. 2010 Nov 11;53(21):7715-30.