



Product Information

Product ID S184761

CAS No. 1218942-37-0

Chemical Name 2-(2-chlorophenyl)-4-[3-(dimethylamino)phenyl]-5-methyl-1H-pyrazolo
[4,3-c]pyridine-3,6(2H,5H)-dione

Synonym GKT-137831; GKT-831

Formula C₂₁H₁₉ClN₄O₂

Formula Wt. 394.9

Melting Point

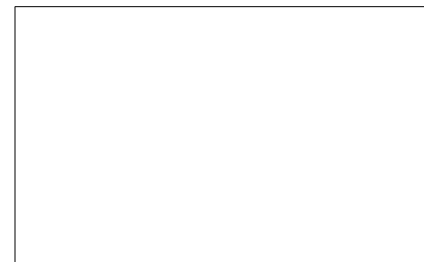
Purity ≥98%

Solubility

Store Temp -20°C

Ship Temp Ambient

Description Setanaxib (GKT127831/GKT831) is a potent and selective inhibitor of NOX1 and NOX4, two isoforms of the NADPH oxidase family responsible for generating superoxide and hydrogen peroxide as signaling molecules and contributors to oxidative stress in pathological conditions. Setanaxib reduces ROS-driven fibrosis, inflammation, and vascular dysfunction in preclinical models and has been investigated clinically for fibrotic liver disease. It is an important pharmacological tool for studying NOX1/NOX4-mediated redox signaling.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
S184761	5 mg	\$98.00
S184761	25 mg	\$275.00
S184761	100 mg	\$725.00

- References**
1. Aoyama T, Paik YH, Watanabe S, et al. Nicotinamide adenine dinucleotide phosphate oxidase in experimental liver fibrosis: GKT137831 as a novel potential therapeutic agent. *Hepatology*. 2012;56(6):2316-27. PMID: 22806357.
 2. Serrander L, Cartier L, Bedard K, et al. NOX4 activity is determined by mRNA levels and reveals a unique pattern of ROS generation. *Biochem J*. 2007;406(1):105-14. PMID: 17516918.
 3. Vermot A, Petit-Härtlein I, Smith SME, et al. NADPH Oxidases (NOX): An Overview from Discovery, Molecular Mechanisms to Physiology and Pathology. *Antioxidants (Basel)*. 2021;10(6):890. PMID: 34204953.
 4. Gorin Y, Cavaglieri RC, Khazim K, et al. Targeting NADPH oxidase with a novel dual Nox1/Nox4 inhibitor attenuates renal pathology in type 1 diabetes. *Am J Physiol Renal Physiol*. 2015;308(11):F1276-87. PMID: 25810436.
 5. Jiang JX, Chen X, Serizawa N, et al. Liver fibrosis and hepatocyte apoptosis are attenuated by GKT137831, a novel NOX4/NOX1 inhibitor in vivo. *Free Radic Biol Med*. 2012;53(2):289-96. PMID: 22609231.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.