

GKT-137831, NADPH oxidase NOX1/4 inhibitor

Catalog	Unit
TBI5044-5MG	5 mg
TBI5044-25MG	25 mg

Product Details

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

Alternate Names: Setanaxib; GKT-831

Molecular Formula: C₂₁H₁₉ClN₄O₂

Formula Weight: 394.85

CAS Number: 1218942-37-0

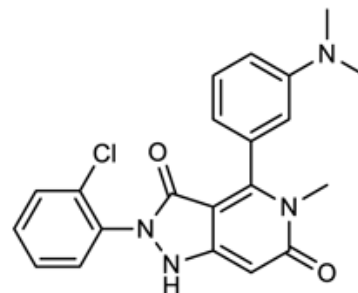
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 65 mg/ml)

Storage: -20°C

Stability: ≥ 2 years.



Applications

NADPH oxidase NOX1/4 inhibitor

Functions

NADPH oxidase, NOX1/4 inhibitor (K_i = 100-150 nM). Inhibits erastin-stimulated ROS production. Potentiates immunotherapy by overcoming cancer-associated fibroblast-mediated CD8⁺ T-cell exclusion. Reduces ROS production in LPS-stimulated platelets in a mouse model. Reduces subarachnoid hemorrhage-induced neuronal death. Potent inhibitor of experimental liver fibrosis in mouse models.

Application Procedures

First dissolved in DMSO (up to 65 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20° for up to 1 month.

For research use only.