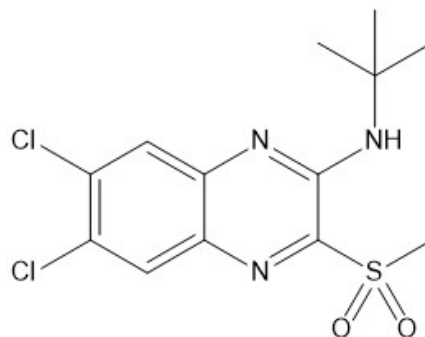


DMB, Gasdermin D agonist/GLP-1 agonist

Catalog	Unit
TBI3975-5MG	5 mg
TBI3975-25MG	25 mg

Product Details

Formal Name: N-tert-Butyl-6,7-dichloro-3-methylsulfonylquinoxalin-2-amine
Alternate Names: 6,7-Dichloro-2-methylsulfonyl-3-N-tert-butylaminoquinoxaline
Molecular Formula: C₁₃H₁₅Cl₂N₃O₂S
Formula Weight: 348.2
CAS Number: 281209-71-0
Purity: >98%
Formulation: Powder
Solubility: Soluble in DMSO (up to 30 mg/ml with warming)
Storage: -20°C
Stability: ≥ 2 years



Applications

Gasdermin D agonist/GLP-1 agonist

Functions

Small molecule glucagon-like peptide 1 (GLP-1) ago-allosteric modulator and agonist (EC₅₀ = 101 nM). It significantly stimulated insulin secretion in BRIN-BD11 cells and decreased overall glucose excursion in mice. It is a direct and selective gasdermin D (GSDMD) agonist that activates GSDMD pore formation and pyroptosis without cleaving GSDMD (EC₅₀ = 700 nM). It induced pyroptosis in mouse cancer cell lines and induced tumor regression and enhanced antitumor immunity. DMB-treated tumor cells acted as a tumor vaccine in mice, indicating that it can trigger immunogenic cell death that provides protective antitumor immunity.

Application Procedures

First dissolved in Soluble in DMSO (up to 30 mg/ml with warming), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

For research use only.