

Catalog	Unit
TBI4633-10MG	10 mg
TBI4633-50MG	50 mg

Product Details

Formal Name: O-[N-(5-Nitrothiazol-2-yl)carbamoyl]phenyl acetate

Molecular Formula: C₁₂H₉N₃O₅S

Formula Weight: 307.28

CAS Number: 55981-09-4

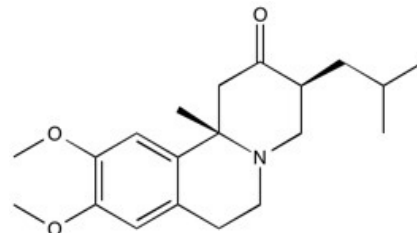
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to at least 50 mg/ml)

Storage: -20°C

Stability: ≥ 1 year.



Applications

Wnt inhibitor; Antiviral

Functions

Nitazoxanide is a clinically relevant antiparasitic agent. It has since been repurposed as a broad-spectrum antiviral agent that is active against many RNA and DNA viruses including influenza, Hepatitis B and C, RSV, coronavirus, dengue and others.² Its antiparasitic activity is believed to be due to inhibition of pyruvate:ferredoxin/flavodoxin oxidoreductases.³ Antiviral activity involves activation of protein kinase activated by double-stranded RNA (PKR) leading to phosphorylation of eukaryotic initiation factor 2 alpha (eIF2 α).⁴ Nitazoxanide has also been found to inhibit Wnt signaling independent of adenomatous polyposis coli (APC) – it targets peptidyl arginine deiminase 2 (PAD2) resulting in increased citrullination of β -catenin.⁵

Application Procedures

First dissolved in DMSO (up to at least 50 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 1 week.

For research use only.