

Catalog	Unit
TBI2731-5MG	5 mg
TBI2731-25MG	25 mg

### Product Details

**Formal Name:** N6-[2-[[4-(Diethylamino)-1-methylbutyl]amino]-6-methyl-4-pyrimidinyl]-2-methyl-4,6-quinolinediamine trihydrochloride

**Molecular Formula:** C<sub>24</sub>H<sub>35</sub>N<sub>7</sub> · 3HCl

**Formula Weight:** 531.00

**CAS Number:** 733767-34-5

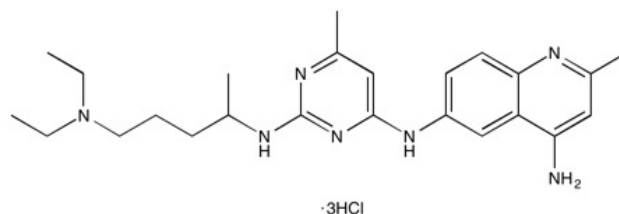
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to 50 mg/ml) or in Water (up to 50 mg/ml).

**Storage:** RT

**Stability:** ≥ 1 year.



### Applications

Rac1 GTPase inhibitor

### Functions

Selective inhibitor of Rac1-GEF interaction. Prevents Rac1 activation by Rac-specific guanine nucleotide exchange factors (GEFs) Trio and Tiam1 (IC<sub>50</sub> ca. 50 μM) with no effect on the closely related Cdc42 or RhoA. In cells, it blocks serum or PDGF-induced Rac-1 activation and lamellipodia formation. NSC-23766 suppressed the growth of wild-type NIH 3T3 cells but was inactive in cells expressing the constitutively active Rac1 mutant, L61Rac1. It is a useful tool to probe the involvement of Rac1 in cell signalling. Off target effect: antagonist at muscarinic acetylcholine receptors. Cell permeable.

### Application Procedures

First dissolved in DMSO (up to 50 mg/ml) or in Water (up to 50 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or distilled water may be stored at -20°C for up to 3 months.

**For research use only.**