

Catalog	Unit
TBI4910-5MG	5 mg
TBI4910-25MG	25 mg

### Product Details

**Formal Name:** 5-[1-[[2-(4-Cyclopropyl)piperazin-1-yl]pyridin-4-yl]methyl]-5-methylpyrazol-3-yl]-3-[4-(trifluoromethoxy)phenyl]-1,2,4-oxadiazole

**Molecular Formula:** C<sub>26</sub>H<sub>26</sub>F<sub>3</sub>N<sub>7</sub>O<sub>2</sub>

**Formula Weight:** 525.54

**CAS Number:** 1227158-85-1

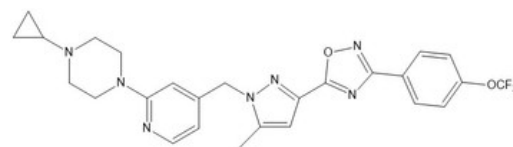
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to 25 mg/ml) or in Ethanol (up to 10 mg/ml)

**Storage:** RT

**Stability:** ≥ 1 year.



### Applications

HIF-1 / Mitochondrial complex I inhibitor

### Functions

Potently inhibits HIF-1 reporter gene activity (IC<sub>50</sub> = 0.7 nM) and CA9 protein expression (IC<sub>50</sub> = 2.0 nM). Blocked HIF-1 $\alpha$  and HIF-2 $\alpha$  protein accumulation in hypoxic H460 cells, and reduced tumor weight in nude mice inoculated with H460 cells. BAY 87-2243 strongly inhibits mitochondrial complex I activity (IC<sub>50</sub> = 10 nM in mitochondria isolated from PC3 cells) leading to its HIF-1 effects. It has no effect on mitochondrial complex III. Reduces melanoma tumor growth via its targeting of mitochondrial complex I.

### Application Procedures

First dissolved in DMSO (up to 25 mg/ml) or in Ethanol (up to 10 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20° for up to 2 months.

**For research use only.**