

## Ranolazine, Selective sodium channel blocker

---

Catalog	Unit
TBI3701-10MG	10 mg
TBI3701-50MG	50 mg

### Product Details

**Formal Name:** (±)-N-(2,6-Dimethylphenyl)-2-[4-[2-hydroxy-3-(2-methoxyphenoxy)-propyl]piperazin-1-yl]acetamide

**Molecular Formula:** C<sub>24</sub>H<sub>33</sub>N<sub>3</sub>O<sub>4</sub>

**Formula Weight:** 427.54

**CAS Number:** 142387-99-3

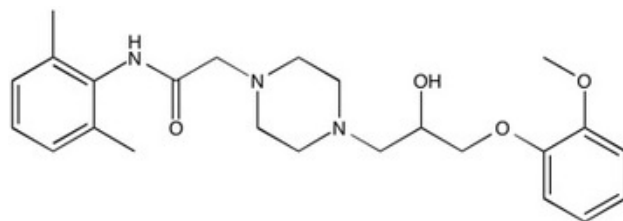
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to 25 mg/ml) or in Ethanol (up to 20 mg/ml).

**Storage:** RT

**Stability:** ≥ 1 year.



### Applications

Selective sodium channel blocker

### Functions

Ranolazine is an FDA-approved drug used for the treatment of chronic angina. It inhibits the late inward sodium current in heart muscle leading to decreased intracellular calcium levels. It blocks Nav 1.4, 1.5, 1.7 and 1.8 (IC<sub>50</sub>'s = 2.42, 6.22, 1.72(10.33), 21.53 μM respectively).

### Application Procedures

First dissolved in DMSO (up to 25 mg/ml) or in Ethanol (up to 20 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

**For research use only.**