

Catalog	Unit
TBI2909-5MG	5 mg
TBI2909-25MG	25 mg

### Product Details

**Formal Name:** 2,3-bis(4-Hydroxyphenyl)-propionitrile

**Alternate Names:** Diarylpropionitrile

**Molecular Formula:** C<sub>15</sub>H<sub>13</sub>NO<sub>2</sub>

**Formula Weight:** 239.27

**CAS Number:** 1428-67-7

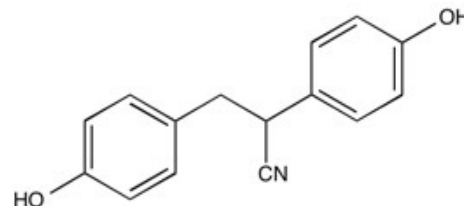
**Purity:** >98%

**Formulation:** powder

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

**Storage:** -20°C

**Stability:** ≥ 1 year.



### Applications

Estrogen ER b agonist

### Functions

Potent estrogen ER $\beta$  receptor agonist. Displays a 70-fold selectivity over ER $\alpha$ , EC<sub>50</sub> = 0.85 and 66 nM, respectively. Regulates expression of GluR1, 2 and 3 in rat hippocampus. Ameliorates portal hypertension in a carbon tetrachloride-induced liver cirrhosis rat model. Stimulates proliferation of androgen-independent prostate cancer cell line PC-3 via a novel pathway involving ER $\beta$ -mediated activation of  $\beta$ -catenin. A useful tool for elucidating the biological function of ER $\beta$ .

### 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.**