

Catalog	Unit
TBI4578-5MG	5 mg
TBI4578-25MG	25 mg

### Product Details

**Formal Name:** Ethyl rel-(3S,3aR)-3-[2-(Methylamino)-2-oxoethyl]-2-oxo-1-[(4-phenylphenyl)methyl]-3,4,5,6-tetrahydroindole-3a-carboxylate

**Molecular Formula:** C<sub>27</sub>H<sub>30</sub>N<sub>2</sub>O<sub>4</sub>

**Formula Weight:** 446.6

**CAS Number:** 1644060-37-6

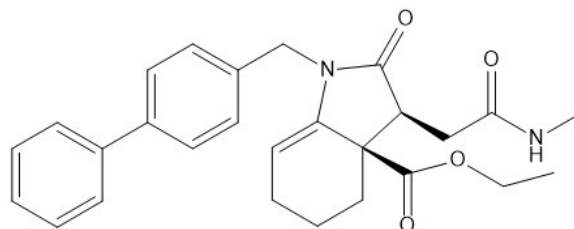
**Purity:** >98%

**Formulation:** Powder

**Solubility:** Soluble in DMSO (greater than 25 mg/ml)

**Storage:** -20°C

**Stability:** ≥ 2 years.



### Applications

Fumarate hydratase inhibitor

### Functions

A pro-drug inhibitor of fumarate hydratase, an important enzyme in the tricarboxylic acid (TCA) cycle. This cell permeable compound is converted to the active carboxylic acid by intracellular esterases ( $K_i = 4.5 \mu\text{M}$  for free acid). The ethyl ester displayed cell-growth inhibitory activity against several cancer lines under nutrient (glucose) deprived conditions with an average  $\text{IC}_{50} = 2.2 \mu\text{M}$ .

### Application Procedures

First dissolved in DMSO (25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

**For research use only.**