

# Formoterol hemifumarate, β2-adrenergic agonist, potent and selective

Catalog	Unit
TBI5092-10MG	10mg
TBI5092-50MG	50mg

### **Product Details**

**Formal Name:** (R,R)-N-[2-Hydroxy-5-[1-hydroxy-2-[[2-(4-methoxyphenyl)-1-methylethyl]amino]ethyl]phenyl]

formamide

**Alternate Names: BD 40A** 

Molecular Formula: C<sub>19</sub>H<sub>24</sub>N<sub>2</sub>O<sub>4</sub> • ½C<sub>4</sub>H<sub>4</sub>O<sub>4</sub>

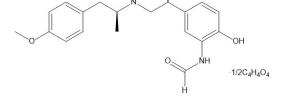
**Formula Weight:** 402.50 **CAS Number:** 43229-80-7

**Purity:** >99%

Formulation: powder

**Solubility:** Soluble in DMSO (up to 20 mg/ml)

**Storage:** RT **Stability:**  $\geq 2$  years.



## **Applications**

β2-adrenergic agonist, potent and selective

# **Functions**

Potent, long-acting agonist specific to  $\beta 2$  (Ki = 7.6 nM), but not  $\beta 1$  (Ki > 2.6  $\mu$ M), adrenergic receptors in trachea (pD2 = 9.3) over atrium (pD2 = 7.0). Reduces adhesion and superoxide anion production in cultured activated eosinophils. Reverses cachexia in rats and mice via inhibition of the ATP-ubiquitin-dependent proteolytic system. Rescues LPS-induced motor function deficits and nigrostriatal dopamine loss in a rat model of Parkinson's. Clinically useful for respiratory diseases.

### **Application Procedures**

First dissolved in DMSO (up to 20 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.