

Catalog	Unit
TBI3689-5MG	5 mg
TBI3689-25MG	25 mg

Product Details

Formal Name: 2-[(4-bromophenyl)methylene]-N-(2,6-dimethylphenyl)-hydrazinecarboxamide

Molecular Formula: C₁₆H₁₆BrN₃O

Formula Weight: 346.20

CAS Number: 415687-81-9

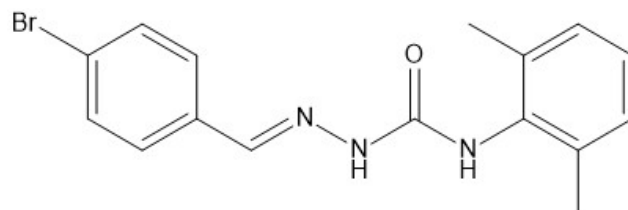
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 50 mg/ml) or in Ethanol (up to 10 mg/ml with warming)

Storage: -20°C

Stability: ≥ 2 years.



Applications

Endosomal trafficking inhibitor

Functions

A novel selective inhibitor of endosomal trafficking which blocks cellular entry of lethal toxin and other acid-dependent bacterial toxins and viruses into mammalian cells. Inhibits Anthrax lethal toxin-induced RAW264.7 cell death, IC₅₀=1.7 mM. Delays lysosomal targeting and degradation of the EGF receptor indicating that it targets host membrane trafficking. Does not block endosomal recycling of transferrin, retrograde trafficking of ricin, phagolysosomal trafficking or phagosome permeabilization by *Franciscella tularensis*, nor does it neutralize acidic organelles. Protects mammalian cells from *Clostridium difficile* CDT, *Clostridium perfringens* Iota toxin and *Clostridium botulinum* C2 toxin. A useful tool for exploring subcellular trafficking of various bacterial toxins.

Application Procedures

First dissolved in DMSO (up to 50 mg/ml) or in Ethanol (up to 10 mg/ml with warming), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

For research use only.