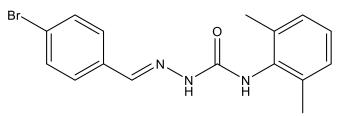


## Catalog # 10-3689 EGA

CAS# 415687-81-9 2-[(4-Bromophenyl)methylene]-N-(2,6-dimethylphenyl)-hydrazinecarboxamide Lot # S105157



EGA is 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<sup>1</sup>. Inhibits Anthrax lethal toxin-induced RAW264.7 cell death,  $IC_{50}=1.7 \mu M.^1$  Delays lysosomal targeting and degradation of the EGF receptor indicating that it targets host membrane trafficking.<sup>1</sup> 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.<sup>1</sup> Protects mammalian cells from *Clostridium difficile* CDT, *Clostridium perfringens* lota toxin and *Clostridium botulinum* C2 toxin.<sup>2</sup> A useful tool for exploring subcellular trafficking of various bacterial toxins.<sup>3</sup>

- 1) Gillespie et al. (2013), Selective inhibitor of endosomal trafficking pathways exploited by multiple toxins and viruses; Proc. Natl. Acad. Sci. USA, **110** E4904
- 2) Schnell et al. (2016), EGA Protects Mammalian Cells from Clostridium difficile CDT, Clostridium perfringens lota Toxin and Clostridium botulinum C2 Toxin; Toxins (Basel), **8** 101
- 3) Dixon et al. (2015), Distinct Roles fro CdtA and CdtC during Intoxication by Cytolethal Distending Toxins; PLoS One, **10** e0143977

## PHYSICAL DATA

Molecular Weight:	346.23
Molecular Formula:	C <sub>16</sub> H <sub>16</sub> BrN <sub>3</sub> O
Purity:	>95% by TLC
	NMR: (Conforms)
Solubility:	DMSO (50 mg/ml); ethanol (10 mg/ml with warming)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase.
	Solutions in DMSO may be stored at -20°C for up to 3 months.

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