

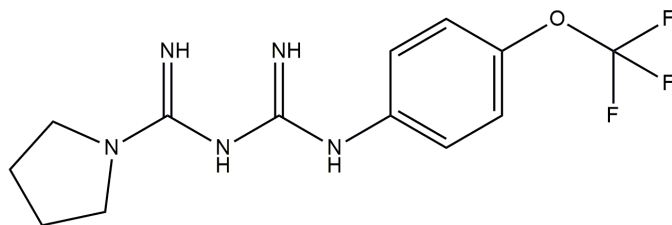
IM156

04/21

ALTERNATE NAMES: HL156A, N'-[N'-[4-(trifluoromethoxy)phenyl]carbamidoyl]pyrrolidine-1-carboximidamide; N-(Imino((4-(trifluoromethoxy)phenyl)amino)methyl)-1-pyrrolidinecarboximidamide

CATALOG #: B3126-5 5 mg
B3126-25 25 mg

STRUCTURE:



MOLECULAR FORMULA: C₁₃H₁₆F₃N₅O

MOLECULAR WEIGHT: 315.29

CAS NUMBER: 1422365-93-2

APPEARANCE: White to off-white solid powder

PURITY: 98%

SOLUBILITY: 60 mg/ml in DMSO

DESCRIPTION: IM156 is a bioenergetic biguanide derivative which blocks mitochondrial complex I and an activator of AMP-activated protein kinase (AMPK). It is a derivative of metformin. IM156 causes energy depletion in tumor cells by inhibiting oxidative phosphorylation. IM156 at a concentration of 15 μM in combination with temozolomide decreases the stemness and invasive properties of glioblastoma tumorspheres. IM156 is in phase I clinical trials for advanced solid tumors and lymphoma.

STORAGE TEMPERATURE: -20 °C. Store in the dark. Product is light sensitive.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

REFERENCES:

1. Choi, J., Lee, J.H., Koh, I., et al. Inhibiting stemness and invasive properties of glioblastoma tumorsphere by combined treatment with temozolomide and a newly designed biguanide (HL156A). *Oncotarget* 7(40):65643-65659 (2016).
2. Son, J., Cho, Y.W., Woo, Y.J., et al. Metabolic Reprogramming by the Excessive AMPK Activation Exacerbates Antigen-Specific Memory CD8 + T Cell Differentiation after Acute Lymphocytic Choriomeningitis Virus Infection. *Immune Netw.* 19(2):e11 (2019).

RELATED PRODUCTS:

ASP-4132 tosylate (Cat. No. B2748)
 ZLN024 hydrochloride (Cat. No. B2034)
 PF-06409577 (Cat. No. B2033)
 EX-229 (Cat. No. B2434)
 MK-3903 (Cat. No. B2431)

DISCLAIMER: *FOR RESEARCH USE ONLY! Not to be used on humans.*