RioVision 05/14

APY29 PRODUCT:

 N^2 -1*H*-Benzimidazol-6-yl- N^4 -(5-cyclopropyl-1*H*-pyrazol-3-yl)-**ALTERNATE NAME:**

2,4-pyrimidinediamine

CATALOG #: 2591-5, 25

AMOUNT: 5 mg, 25 mg

STRUCTURE:

MOLECULAR FORMULA: C₁₇H₁₆N₈

MOLECULAR WEIGHT: 332.36

CAS No. 1216665-49-4

APPEARANCE: White solid

SOLUBILITY: DMSO (>30 mg/ml)

PURITY: ≥98% by HPLC

STORAGE: Store at -20°C. Protect from light and air

DESCRIPTION: APY29 is a highly potent and selective allosteric modulator of IRE1α. Under endoplasmic reticulum (ER) stress, unfolded

proteins accumulate in the ER to activate the ER

transmembrane kinase/endoribonuclease (RNase)—IRE1a. IRE1α oligomerizes, autophosphorylates, and initiates splicing of XBP1 mRNA, thus triggering the unfolded protein response (UPR). APY29 Inhibits IRE1 α autophosphorylation (IC₅₀ = 280 nM) and activates IRE1αRNase activity. As dysregulation of the UPR has been implicated in a variety of cell degenerative and neoplastic disorders, small molecule modulators of IRE1a

should be very useful in understanding UPR's role in pathophysiology and to develop drugs for ER stress-related

diseases.

REFERENCES: Wang, L., et al. (2012). Nat. Chem. Biol. 8, 982-989.

RELATED PRODUCTS:

Sunitinib malate (Sutent) (Cat. No. 1611-25, 100, 1000) Sunitinib, Free base (Cat. No. 2097-25, 100, 1000) EZSolution™ Sunitinib Malate (Cat. No. 1804-25)

HANDLING: Do not take internally. Wear gloves and mask when handling

the product! Avoid contact by all modes of exposure.

USAGE: FOR RESEARCH USE ONLY! Not to be used in humans.