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**Product Data Sheet**

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Product Name: IRE1 $\alpha$  kinase-IN-2

Cat. No.: GC64232

**Chemical Properties**

Cas. No. 1414938-21-8

Formula C<sub>27</sub>H<sub>23</sub>F<sub>3</sub>N<sub>6</sub>O M.Wt 504.51

Solubility Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

IRE1 $\alpha$  kinase-IN-2 is a potent IRE1 $\alpha$  kinase inhibitor, with an EC<sub>50</sub> of 0.82  $\mu$ M. IRE1 $\alpha$  kinase-IN-2 inhibits IRE1 $\alpha$  kinase autophosphorylation (IC<sub>50</sub>=3.12  $\mu$ M). IRE1 $\alpha$  kinase-IN-2 inhibits XBP1 mRNA splicing in the WT cell lines[1].

IRE1 $\alpha$  kinase-IN-2 (compound 3) inhibits XBP1 mRNA splicing, even during ER stress[1].

[1]. Wang L, Perera BG, Hari SB, et al. Divergent allosteric control of the IRE1 $\alpha$  endoribonuclease using kinase inhibitors. Nat Chem Biol. 2012;8(12):982-989.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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