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**Product Data Sheet**

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Product Name: ROC-0929

Cat. No.: GC64306

**Chemical Properties**

Cas. No. 1048660-43-0

Formula C<sub>30</sub>H<sub>31</sub>N<sub>3</sub>O<sub>6</sub>S

M.Wt 561.65

Solubility DMSO : 12.5 mg/mL (22.26 mM; ultrasonic and warming and heat to 60°C)

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**

ROC-0929 (compound 13a) is a potent and selective inhibitor of secreted phospholipases A2 (sPLA2s) with an IC<sub>50</sub> of 80 nM, specially targeting hGX. ROC-0929 inhibits the phosphorylation of ERK1/2 and p-38. Secreted phospholipases A2 (sPLA2s) are a family of disulfide-rich, Ca<sup>2+</sup>-dependent enzymes that hydrolyze the sn-2 position of glycerophospholipids to release a fatty acid and a lysophospholipid. ROC-0929 has the potential for researching inflammation related diseases[1].

[1]. Oslund RC, et al. Highly specific and broadly potent inhibitors of mammalian secreted phospholipases A2. J Med Chem. 2008;51(15):4708-4714. [2]. Hallstrand TS, et al. Endogenous secreted phospholipase A2 group X regulates cysteinyl leukotrienes synthesis by human eosinophils. J Allergy Clin Immunol. 2016;137(1):268-277.e8.

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

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