

# Product data sheet



MedKoo Cat#: 522376 Name: GSK2292767 CAS: 1254036-66-2 (free base) Chemical Formula: C <sub>24</sub> H <sub>28</sub> N <sub>6</sub> O <sub>5</sub> S Exact Mass: 512.1842 Molecular Weight: 512.585		
Product supplied as:	Powder	
Purity (by HPLC):	≥ 98%	
Shipping conditions	Ambient temperature	
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks.	

## 1. Product description:

GSK2292767 is a potent and selective PI3Kδ inhibitor. GSK2292767 is currently in clinical trials for the treatment of respiratory diseases such as asthma and COPD. GSK2292767 is highly selective for PI3Kδ over the closely related isoforms and are active in a disease relevant brown Norway rat acute OVA model of Th2-driven lung inflammation. PI3Kδ is highly enriched in leukocytes, making it an attractive target for the treatment of inflammatory conditions, such as asthma, chronic obstructive pulmonary disease (COPD), and autoimmune diseases.

## 2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under “QC And Documents” section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

## 3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
DMF	16.0	31.21
DMF:PBS (pH 7.2) (1:2)	0.3	0.59
DMSO	57.0	111.20

## 4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	1.95 mL	9.75 mL	19.51 mL
5 mM	0.39 mL	1.95 mL	3.90 mL
10 mM	0.20 mL	0.98 mL	1.95 mL
50 mM	0.04 mL	0.20 mL	0.39 mL

## 5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of “Calculator”

## 6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

TBD

In vivo study

1. Down K, Amour A, Baldwin IR, Cooper AW, Deakin AM, Felton LM, Guntrip SB, Hardy C, Harrison ZA, Jones KL, Jones P, Keeling SE, Le J, Livia S, Lucas F, Lunniss CJ, Parr NJ, Robinson E, Rowland P, Smith S, Thomas DA, Vitulli G, Washio Y, Hamblin JN. Optimization of Novel Indazoles as Highly Potent and Selective Inhibitors of Phosphoinositide 3-Kinase δ for the Treatment of Respiratory Disease. J Med Chem. 2015 Sep 24;58(18):7381-99. doi: 10.1021/acs.jmedchem.5b00767. Epub 2015 Sep 3. PMID: 26301626.

## 7. Bioactivity

Biological target:

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GSK2292767 is a potent and selective inhibitor of PI3K $\delta$ , with a pIC<sub>50</sub> of 10.1.

## In vitro activity

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TBD

## In vivo activity

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Compounds 2 and 3 (GSK2292767) are both highly selective for PI3K $\delta$  over the closely related isoforms and are active in a disease relevant brown Norway rat acute OVA model of Th2-driven lung inflammation.

*Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.*