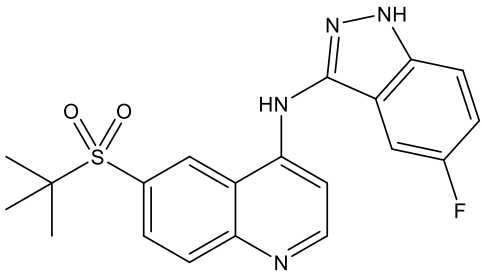
Catalog # 10-4761

GSK583

CAS# 1346547-00-9

6-tert-Butylsulfonyl-N-(5-fluoro-1H-indazol-3-yl)quinoline-4-amine

Lot # FBS2060



GSK583 is a highly selective and potent inhibitor of RIP2 kinase, IC_{50} = 5 nM human and IC_{50} = 2 nM rat.[1] It also potently Inhibits isolated RPI3 kinase (IC_{50} = 5 nM) but is inactive against RIP3 in cellular assays due to a very low $K_{M,ATP}$. GSK583 blocks NOD2 signaling by interfering with XIAP-RIP2 binding resulting in decreased cytokine and chemokine production.[1,2]

1) Haile *et al*. (2016), *The Identification and Pharmacological Characterization of 6-(tert-Butylsulfonyl)-N-(5-fluoro-1H-indazol-3-yl)quinoline-4-amine;* J. Med. Chem., **59** 4867
2) Goncharov *et al*. (2018), *Disruption of XIAP-RIP2 Association Blocks NOD2-Mediated Inflammatory Signaling*; Mol. Cell, **69** 551

PHYSICAL DATA

Molecular Weight:	398.45
Molecular Formula:	$C_{20}H_{19}FN_4O_2S$
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (>25 mg/ml)
Physical Description:	Pale yellow solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

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