Product Data Sheet

Product Name: (S)-JDQ-443
Cat. No.: GC69904

Chemical Properties

Cas. No.	2653994-10-4		
Formula	$C_{29}H_{28}ClN_7O$	M.Wt	526.03
Solubility		Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	(S)-JDQ-443		

Background

(S)-JDQ-443 is an isomer of 2). JDQ-443 is an orally active, potent, selective, and covalent **KRAS G12C** inhibitor (extracted from patent WO2021120890A1). JDQ-443 shows antitumor activity[1][2].

JDQ-443 □□□□□ERK□pERK□□□□□□□□□□□□□□□□ KRASG12C □□□□□ NCI-H358 □ NCI-H2122 □□□□□ IC$_{50}$□□□□ 0.018 □ 0.063 μM[2]□
JDQ443 □ GDP□□□ KRASG12C □□□□□□□□□□□□□□ RAS □□ II □□□□□□□□□□□□□□□□KRASG12C□□□ KRAS G12C/H95□G12C/R68S □ G12C/Y96 □□□□□□□□□[2]□

JDQ443□10-100 mg/kg□□□□□□□14□□□□□□□□□□□□□□□□□□□□□□□□ KRAS G12C □□□ CDX □□□□□□□[2]□
JDQ443□□□□100 mg/kg□□□□JDQ443□+7.5mg/kg□□□□□□TNO155□□□36□□□□□ JDQ443 □□□□□□□□□□□□□□□□□□□□□□□□□□[2]□
JDQ443 □ NSCLC □□□□□□□ PDX □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□[2]□

[1]. LIU BO, et al. PYRAZOLYL DERIVATIVES USEFUL AS ANTI-CANCER AGENTS. Patent WO2021120890A1.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

[2]. Weiss A, Lorthiois E, Barys L, et al. Discovery, Preclinical Characterization, and Early Clinical Activity of JDQ443, a Structurally Novel, Potent and Selective, Covalent Oral Inhibitor of KRASG12C. Cancer Discov. 2022;candisc.0158.2022.

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