

Product Data Sheet

Product Name: Pazopanib-13C,d3 hydrochloride

Cat. No.: GC72911

Chemical Properties

Cas. No. 1261398-44-0

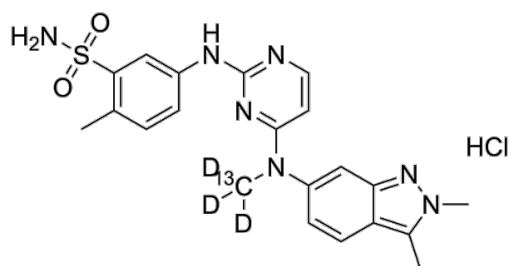
Formula $C_{20}^{13}H_{21}D_3ClN_7O_2S$ M.Wt 477.99

Solubility DMSO : 10 mg/mL (20.92 mM; Need ultrasonic and warming) Storage -20°C, sealed storage, away from moisture

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

Pazopanib-13C,d3 (drochloride) is the deuterium and 13C labeled Pazopanib drochloride[1]. Pazopanib drochloride (GW786034 drochloride) is a novel multi-target inhibitor of VEGFR1, VEGFR2, VEGFR3, PDGFRβ, c-Kit, FGFR1, and c-Fms with an IC50 of 10, 30, 47, 84, 74, 140 and 146 nM, respectively[2][3].

Stable heavy isotopes of drogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has

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gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs[1].

References:

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.
- [2]. Harris PA, et al. Discovery of 5-[[4-[(2,3-dimethyl-2H-indazol-6-yl)methylamino]-2-pyrimidinyl]amino]-2-methyl-benzenesulfonamide (Pazopanib), a novel and potent vascular endothelial growth factor receptor inhibitor. J Med Chem. 2008, 51(15), 4632-4640.
- [3]. Thakur A, et al. Pazopanib, a multitargeted tyrosine kinase inhibitor, reduces diabetic retinal vascular leukostasis and leakage. Microvasc Res. 2011 Nov;82(3):346-50.

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