



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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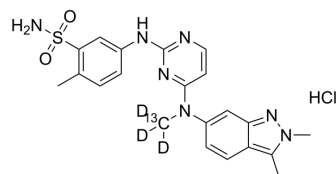
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## Pazopanib-<sup>13</sup>C,<sub>3</sub>D hydrochloride

<b>Cat. No.:</b>	HY-12009S
<b>CAS No.:</b>	1261398-44-0
<b>Molecular Formula:</b>	C <sub>20</sub> <sup>13</sup> CH <sub>21</sub> D <sub>3</sub> ClN <sub>7</sub> O <sub>2</sub> S
<b>Molecular Weight:</b>	477.99
<b>Target:</b>	VEGFR; PDGFR; Autophagy; c-Fms; FGFR; c-Kit
<b>Pathway:</b>	Protein Tyrosine Kinase/RTK; Autophagy
<b>Storage:</b>	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

**In Vitro** DMSO : 10 mg/mL (20.92 mM; Need ultrasonic and warming)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.0921 mL	10.4605 mL	20.9209 mL
	5 mM	0.4184 mL	2.0921 mL	4.1842 mL
	10 mM	0.2092 mL	1.0460 mL	2.0921 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

**Description** Pazopanib-<sup>13</sup>C,<sub>3</sub>D (hydrochloride) is the deuterium and <sup>13</sup>C labeled Pazopanib hydrochloride[1]. Pazopanib Hydrochloride (GW786034 Hydrochloride) 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].

**In Vitro** Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### 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.

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

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