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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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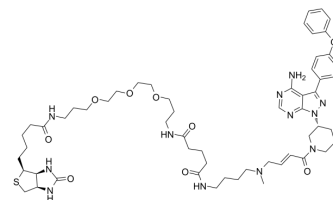
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Ibrutinib-biotin

Cat. No.:	HY-100342		
CAS No.:	1599432-18-4		
Molecular Formula:	C ₅₆ H ₈₀ N ₁₂ O ₉ S		
Molecular Weight:	1097.37		
Target:	Btk		
Pathway:	Protein Tyrosine Kinase/RTK		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (45.56 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass	1 mg	5 mg	10 mg
		1 mM		0.9113 mL	4.5563 mL	9.1127 mL
		5 mM		0.1823 mL	0.9113 mL	1.8225 mL
		10 mM		0.0911 mL	0.4556 mL	0.9113 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (2.28 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (2.28 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (2.28 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Ibrutinib-biotin is a probe that consists of Ibrutinib linked to biotin via a long chain linker, extracted from patent WO2014059368A1 Compound 1-5, has an IC ₅₀ of 0.755-1.02 nM for BTK.
IC ₅₀ & Target	IC ₅₀ : 0.755-1.02 nM (BTK), 1.71-2.29 nM (TEC), 3.66-4.27 nM (BLK), 4.42-5.57 nM (BMX), 5.99-6.92 nM (LCK), 33.8-36.3 nM (Src), 0.187-0.198 μM (ITK), 5.34-4.87 μM (JAK3) ^[1]
In Vitro	Ibrutinib-biotin (Compound 1-5) is a probe that consists of Ibrutinib linked to biotin via a long chain linker. Ibrutinib is a TEC

family kinase inhibitor. The TEC kinase family is composed of five members, TEC, BTK (Bruton's Tyrosine Kinase), ITK (interleukin-2-inducible T-cell kinase)/EMT/TSK, BMX and TXK/RLK. The TEC family kinases participate in phosphotyrosine-mediated and phospholipid-mediated signaling systems. Many TEC family proteins are abundantly expressed in hematopoietic tissues, and play important roles in the growth and differentiation processes of blood cells^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Kinase Assay ^[1]

In this study, assay formats are tested for sensitivity, specificity, range, and to determine most suitable anti BTK Antibody. An aliquot of DOHH2 cell lysate (1 mg/mL) is inhibited with 1 μ M Ibrutinib then labeled with probe (1 μ M). Negative controls: Untreated DOHH2 and Jurkat cell lysates (1 mg/mL) are labeled with probe (1 μ M) and Untreated DOHH2 cell lysate. Standard Streptavidin plate (5-pack); Read Buffer T (50 mL), SULFO TAG Goat Anti-mouse (50 μ g); SULFO TAG Goat Anti-rabbit (50 μ g); SULFO TAG streptavidin (50 μ g); MSD Standard Plates; MSD Blocker A; Protease inhibitor cocktail; Positive Control lysates from BTK expressing cell line (DOHH2); Negative Control lysates; Ibrutinib (PCI); probe compound 1-5 (biotinylated probe).

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- J Med Chem. 2021 Oct 21.

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REFERENCES

[1]. Betty Y. CHANG, et al. Companion diagnostics for tec family kinase inhibitor therapy. WO 2014059368 A1.

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

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