Product Data Sheet

Product Name: Ibrutinib-biotin
Cat. No.: GC36289

Chemical Properties

Cas. No.	1599432-18-4		
SMILES	O=C(CCCC(NCCCOCCOCCOCCCNC(CCCC[C@@H]1SC[C@H](N2)[C@@H]1NC2=O)=O)=O)NCCCCN(C)C/C=C/C(N3CCC[C@@H](N4N=C(C5=CC=C(OC6=CC=CC=C6)C=C5)C7=C(N)N=CN=C74)C3)=O		
Formula	$C_{56}H_{80}N_{12}O_9S$	M.Wt	1097.37
Solubility	DMSO: 50 mg/mL (45.56 mM)	Storage	Store at -20°C
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.		

Caution: Product has not been fully validated for medical applications. For research use only.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

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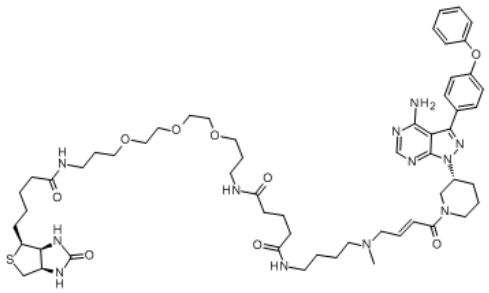
Structure



Background

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 IC50 of 0.755-1.02 nM for BTK. IC50: 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]

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].

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

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