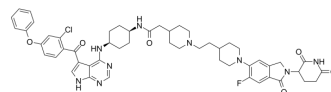


PROTAC BTK Degradar-5

Cat. No.:	HY-155072
Molecular Formula:	C ₅₂ H ₅₇ ClFN ₉ O ₆
Molecular Weight:	958.52
Target:	Btk
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PROTAC BTK degraders-5(compound 3e) is a selective BTK degrader with a DC ₅₀ value of 7.0 nM in JeKo-1 cells. PROTAC BTK degraders-5 has no off-target effect on degrading CRBN neosubstates. PROTAC BTK degraders-5 has anti-proliferation effect on various lymphoma tumor cells and can be used in chronic lymphoid malignancies research ¹ .								
In Vitro	<p>PROTAC BTK Degradar-5 (Compound 3e) (1.6~1000 nM; 24 h) induces BTK degradation with DC₅₀ value of 7.0 nM in JeKo-1 cells^[1].</p> <p>PROTAC BTK Degradar-5 (100 and 1000 nM) possesses the metabolic stability with the T_{1/2} of 145 min^[1].</p> <p>PROTAC BTK Degradar-5 (100 nM;12 h) induced - BTK degradation blocks by proteasome inhibitor MG - 132 (HY-13259) (5 μM)^[1].</p> <p>PROTAC BTK Degradar-5 (1.6~1000 nM; 24 h) has no effect on the levels of IKZF1 and GSPT1 and mild effect on the level of IKZF3^[1].</p> <p>PROTAC BTK Degradar-5 (72 h) has anti- proliferation effect in OCI-ly10, TMD8, JeKo-1 and BTK^{C481S} Ba/F3 cells with the IC₅₀ values of 2.3, 4.5, 38.1 and 86.0 nM, which were higher than Ibrutinib (HY-10997)(IC₅₀ value of 4.5, 4.7, 79.8, and 1546.0 nM, respectively)^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>								
In Vivo	<p>PROTAC BTK Degradar-5 (2 mg/kg for i.v, sigle dose) is metabolically stable in mice^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1" data-bbox="345 1465 1515 1808"> <tr> <td>Animal Model:</td> <td>The male Balb/c mice^[1]</td> </tr> <tr> <td>Dosage:</td> <td>a single dose 2 mg/kg or 100 mg/kg, 5% DMSO, 10% Solutol, 85% saline</td> </tr> <tr> <td>Administration:</td> <td>Intravenous injection (i.v.); Oral gavage (p.o.)</td> </tr> <tr> <td>Result:</td> <td>Maintained above 10 nM for at least 4 h after administration of PROTAC BTK Degradar-5 at a single dose of 2 mg/kg via intravenous (IV) injection in the plasma (the effective BTK degradation DC₅₀50 = 7.0nM). Had poor oral bioavailability at a dose of 100 mg/kg.</td> </tr> </table>	Animal Model:	The male Balb/c mice ^[1]	Dosage:	a single dose 2 mg/kg or 100 mg/kg, 5% DMSO, 10% Solutol, 85% saline	Administration:	Intravenous injection (i.v.); Oral gavage (p.o.)	Result:	Maintained above 10 nM for at least 4 h after administration of PROTAC BTK Degradar-5 at a single dose of 2 mg/kg via intravenous (IV) injection in the plasma (the effective BTK degradation DC ₅₀ 50 = 7.0nM). Had poor oral bioavailability at a dose of 100 mg/kg.
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REFERENCES

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

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