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Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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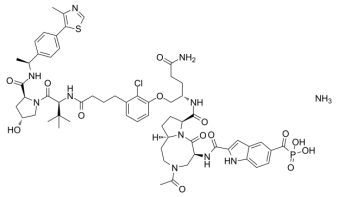
KT-333 ammonium

Cat. No.:	HY-156730A
CAS No.:	2839758-34-6
Molecular Formula:	$C_{60}H_{77}ClN_{11}O_{14}PS$
Molecular Weight:	1274.81
Target:	STAT; Molecular Glues
Pathway:	JAK/STAT Signaling; Stem Cell/Wnt; PROTAC
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	KT-333 ammonium (Compound A) is a molecular glues that degrades STAT3 protein. KT-333 ammonium mediates the selective degradation of STAT3 through the ubiquitin-proteasome system by binding to STAT3 protein and E3 ubiquitin ligase von Hippel-Lindau protein (VHL). KT-333 ammonium has strong selectivity for STAT3 protein degradation and good antitumor activity. KT-333 ammonium can be used in the study of hematologic malignancies such as large granular lymphocytic leukemia (LGL-L), peripheral T-cell lymphoma (PTCL), and cutaneous T-cell lymphoma (CTCL)[1].
IC_{50} & Target	STAT3
In Vitro	KT-333 ammonium (11.8±2.3 nM, 48 h) degrades STAT3 resulted in irreversible growth inhibition of SU-DHL-1 cell line and induces caspase 3/7 activity in the SU-DHL-1 cell line[1]. KT-333 ammonium has a good degradation effect on STAT3 protein, and in cell phenotypic analysis, its GI_{50} value in multiple ALCL cell lines ranges from 8.1 to 57.4 nM[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	KT-333 ammonium (5, 10, 15 and 45 mg/kg, iv.; once a week for two weeks) exhibits dose-dependent antitumor activity. Female NOD SCID mice with xenograft tumors of SU-DHL-1 administered with 5 mg/kg achieved 79.9% tumor growth inhibition (TGI), while those administered 10, 15, or 45 mg/kg experienced complete tumor regression, with these effects sustained until the end of the study[1]. KT-333 ammonium (10, 20 and 30 mg/kg, iv.; once a week for two weeks) exhibits dose-dependent antitumor activity. Female NOD SCID mice with xenograft tumors of SUP-M2 administered with 10 mg/kg achieved 83.8% tumor growth inhibition (TGI), while those administered 20 or 30 mg/kg experienced complete tumor regression, with these effects sustained until the end of the study[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Ding X, et al. Antitumor effect of the novel sphingosine kinase 2 inhibitor ABC294640 is enhanced by inhibition of autophagy and by sorafenib in human cholangiocarcinoma cells. Oncotarget. 2016 Apr 12;7(15):20080-92.

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

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