

Product Data Sheet

Product Name: KZR-504

Cat. No.: GC31899

Chemical Properties

Cas. No. 1629052-78-3

SMILES O=C(N[C@@H](CO)C(N[C@@H](CC1=CC=CC=C1)C([C@]2(CO2)C)=O)=O)C(N3)=CC=CC3=O

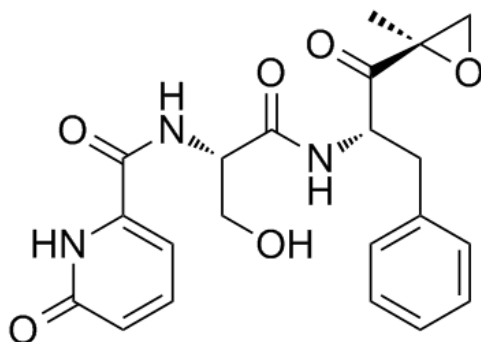
Formula $C_{21}H_{23}N_3O_6$ M.Wt 413.42

Solubility DMSO : 100 mg/mL (241.88 mM; Need ultrasonic) Storage Store at -20°C, protect from light, stored under nitrogen

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.

Structure



Background

KZR-504 is a highly selective and orally active inhibitor of immunoproteasome low molecular mass polypeptide 2 (LMP2), with IC₅₀s of 51 nM, 4.274 μM for LMP2 and LMP7, respectively.

Evaluating the inhibition of LMP2, and antitargets LMP7 and β5, in mouse tissues reveals that KZR-504 (compound 12) is both selective and potent in vivo with >50% target inhibition achieved at >1

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

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mg/kg in all tissues tested except brain[1].

[1]. Johnson HWB, et al. Discovery of Highly Selective Inhibitors of the Immunoproteasome Low Molecular Mass Polypeptide 2 (LMP2) Subunit. ACS Med Chem Lett. 2017 Mar 9;8(4):413-417.

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