

Alisertib sodium Biochemical

Alisertib sodium

CATALOG #
AAA227425

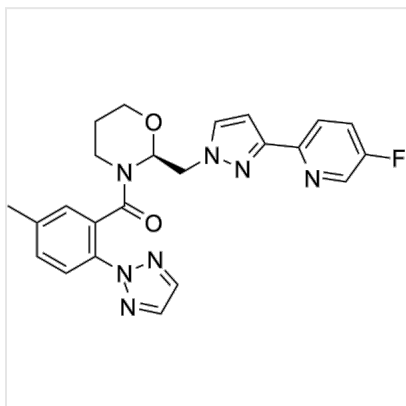
PRODUCT SYNONYMS

Alisertib sodium; ORN-0829; TS-142; Alisertib sodium biochemical

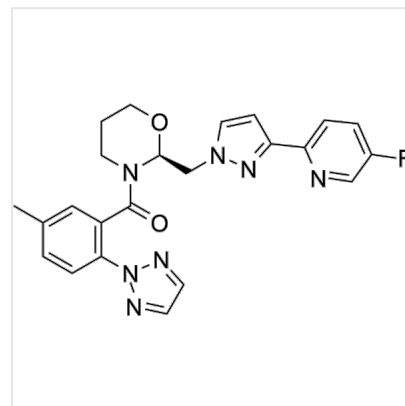
PRODUCT SPECIFICATIONS

Purity/Purification	98%
CAS	1028486-06-7
Targets&IC50	Aurora A:12.5 nM (IC50), Aurora B:396.5 nM (IC50)
Solubility	<1mg/ml refers to the product slightly soluble or insoluble
In vitro	Alisertib (MLN 8237)(30 mg/kg, p.o.) significantly reduces tumor burden and increases overall survival in xenograft-murine model of human-MM[1]. Alisertib (3-30 mg/kg; P.o.; once daily for 3 weeks) causes tumor growth inhibition in solid tumor xenograft models[4]. Animal Model: Nude mice bearing HCT-116 colon tumor xenograft[4]. Dosage: 3, 10, or 30 mg/kg. Administration: P.o.; once daily for 3 weeks. Result: Resulted in a dose-dependent TGI (tumor growth inhibition) of 43.3%, 84.2%, and 94.7% for the 3, 10, and 30 mg/kg groups, respectively.
Preparation and Storage	Powder: -20 degree C for 3 years In solvent: -80 degree C for 2 years

IMAGES



Structure
Vornorexant, CAS 1517965-94-4



Structure
Vornorexant, CAS 1517965-94-4

ADDITIONAL INFORMATION

Related Product Information for Alisertib sodium biochemical	Alisertib (MLN 8237) sodium is an orally active and selective Aurora A kinase inhibitor (IC 50 =1.2 nM), which binds to Aurora A kinase resulting in mitotic spindle abnormalities, mitotic accumulation. Alisertib sodium induces apoptosis and autophagy through targeting the AKT/mTOR/AMPK/p38 pathway in leukemic cells. Antitumor activity.
References	1. Aya Futamura, et al. Discovery of ORN0829, a potent dual orexin 1/2 receptor antagonist for the treatment of insomnia. Bioorg Med Chem. 2020 Jul 1;28(13):115489.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/biochemical/alisertib-sodium/227425>