

XJB-5-131 biochemical

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CATALOG #
AAA228926

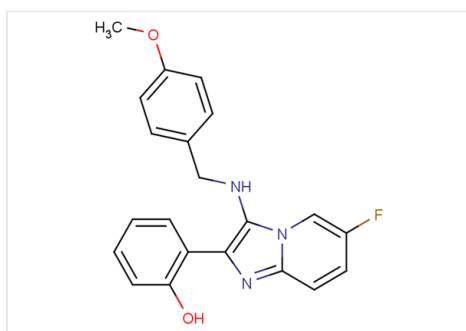
PRODUCT SYNONYMS

XJB-5-131; Antiproliferative agent-14; XJB-5-131 biochemical

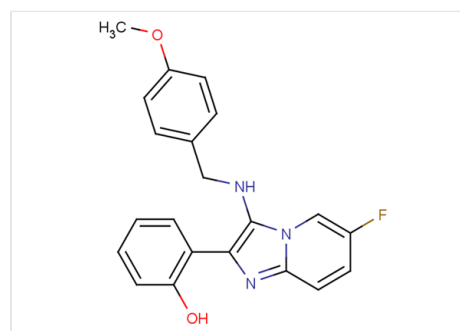
PRODUCT SPECIFICATIONS

Purity/Purification	98%
CAS	866404-31-1
Solubility	<1mg/ml refers to the product slightly soluble or insoluble
In vitro	XJB-5-131 ameliorates peroxidation of the mitochondrial phospholipid, cardiolipin, in ileal mucosal samples from rats subjected to hemorrhagic shock (HS)[1]. Intravenous treatment with XJB-5-131 (2 umol/kg) significantly prolongs the survival of rats subjected to profound blood loss (33.5 mL/kg) despite administration of only a minimal volume of crystalloid solution (2.8 mL/kg) and the absence of blood transfusion[1]. XJB-5-131 reduces oxidative damage to mitochondrial DNA, maintains mitochondrial DNA copy number, suppresses motor decline and weight loss, enhances neuronal survival, and improves mitochondrial function. XJB-5-131 significantly suppresses the disease phenotypes and improves mitochondrial function in a mouse model of Huntington's disease (HD)[2]. XJB-5-131 (1 mg/kg; intraperitoneally injected; three times a week up to 57 weeks) suppresses decline of weight loss and motor function in a mouse model of HD[2]. Animal Model: Male specific pathogen-free Sprague-Dawley rats, weighing 150 to 250 g[1]. Dosage: 2 umol/kg. Administration: Administered intravenously using a syringe pump. Result: The rats treated with XJB-5-131 survived significantly longer ($P < 0.01$). Three of six survived for longer than 3 hours after completion of the hemorrhage protocol and one rat survived for the whole 6 hours postbleeding observation period. Animal Model: HD150KI mice[2]. Dosage: 1 mg/kg. Administration: Intraperitoneally injected; three times a week up to 57 weeks. Result: Chronic treatment suppressed weight loss. Increased the average body mass by 22%.
Preparation and Storage	Powder: -20 degree C for 3 years In solvent: -80 degree C for 2 years

IMAGES



Structure
MT189, CAS 1885900-35-5



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ADDITIONAL INFORMATION

Related Product Information for XJB-5-131 biochemical	XJB-5-131 is a mitochondria-targeted ROS and electron scavenger. XJB-5-131 is a bi-functional antioxidant that comprises a radical scavenger. XJB-5-131 is a synthetic antioxidant that targets mitochondria. XJB-5-131 is an effective ionizing irradiation protector and mitigator of cord blood mononuclear cells (CB MNCs).
Product Categories/Family for XJB-5-131 biochemical	Cytoskeletal Signaling
References	1. An W, et al. Discovery of novel 2-phenyl-imidazo[1,2-a]pyridine analogues targeting tubulin polymerization as antiproliferative agents. Eur J Med Chem. 2016 Apr 13;112:367-372.

NCBI AND UNIPROT INFORMATION

Molecular Weight	363.38
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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.

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Online datasheet: <https://stage.aaabiotech.com/biochemical/xjb-5-131/228926>