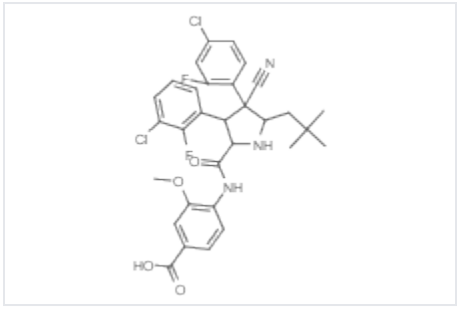
Idasanutlin Inhibitor

PRODUCT OVERVIEW

Product Name	Idasanutlin, Inhibitor
Full Product Name	Idasanutlin (RG-7388)
Form/Format	POWDER
Purity/Purification	99.55%
Preparation and Storage	0-4°C for short term (days to weeks), or -20°C for long term (months).
Molecular Weight	616.48
CAS	1229705-06-9
Formula	C31H29Cl2F2N3O4
1H NMR Spectrum	Consistent with structure.
HPLC	Consistent with structure.
Conclusion	The test result is consistent with structure
In vitro	Idasanutlin inhibits cell proliferation with IC50 of 30 nM, and induces dose-dependent p53 stabilization, cell cycle arrest, as well as cell apoptosis in cancer cells expressing wild-type p53.
In vivo	In a mouse SJSA human osteosarcoma xenograft model, Idasanutlin (25 mg/kg p.o.) causes tumor growth inhibition and regression. In a SJSA xenograft model, Idasanutlin results in induction of apoptosis and antiproliferation.
Kinase Assay	Biochemical Binding Affinity – HTRF Assay: The p53-MDM2 HTRF assay is performed in buffer containing 50 mM Tris-HCl, pH 7.4, 100 mM NaCl, 1 mM DTT, 0.02 or 0.2 mg/ml BSA. Small-molecule inhibitors are stored in aliquots as 10 mM stock solutions in DMSO at 4°C in 96-deep-well plates. It is thawed and mixed immediately prior to testing. The compound is incubated with GST-MDM2 and a biotinylated p53 peptide for one hour at 37°C. Phycolink goat anti-GST (Type 1) allophycocyanin and Eu-8044-streptavidin are then added and followed by one hour incubation at room temperature. Plates are read using the Envision fluorescence reader. IC50 values are determined from inter-plate duplicate or triplicate sets of data. Data are analyzed by XLfit4 (Microsoft) using a 4 Parameter Logistic Model (Sigmoidal Dose-Response Model) and the equation Y= (A+ ((B-A)/ (1+((C/x)^D)))), where A and B are enzyme activity in the absence or presence of infinite inhibitor compound, respectively, C is the IC50 and D is the Hill coefficient.
Cell Research	Cell proliferation is evaluated by the tetrazolium dye assay. The concentration at which 50% inhibition (IC50) or 90% inhibition (IC90) of cell proliferation is determined from the linear regression of a plot of the logarithm of the concentration versus percent inhibition. (Only for Reference) Cell lines? wt-p53 cancer cell lines (SJSA1, RKO, HCT116)
Animal Research	Animal Model?Mice bearing SJSA human osteosarcoma xenografts
Solubility	DMSO: 93 mg/mL (150.9 mM) Ethanol: 8 mg/mL (12.97 mM) Water: <1 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
Product Categories/Family for Idasanutlin, inhibitor	Molecules; Mdm2; Mdm2 inhibitor
Related Product Information for Idasanutlin, inhibitor	Idasanutlin (RG-7388) is a potent and selective p53-MDM2 inhibitor with IC50 of 6 nM.
Other Notes	Small volumes of Idasanutlin, inhibitor vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for Idasanutlin purchase	MBS578817 is an inhibitor targeting Idasanutlin. Also known as Idasanutlin (RG-7388).



Structure of Idasanutlin, inhibitor

	1mg	5mg	10mg
1 mM	1.622 mL	8.111 mL	16.221 mL
5 mM	0.324 mL	1.622 mL	3.244 mL
10 mM	0.162 mL	0.811 mL	1.622 mL
50 mM	0.032 mL	0.162 mL	0.324 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Testing Data (TD) of Idasanutlin, inhibitor

Preparing Stock Solutions.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us

Online datasheet: https://www.mybiosource.com/inhibitor/idasanutlin/578817