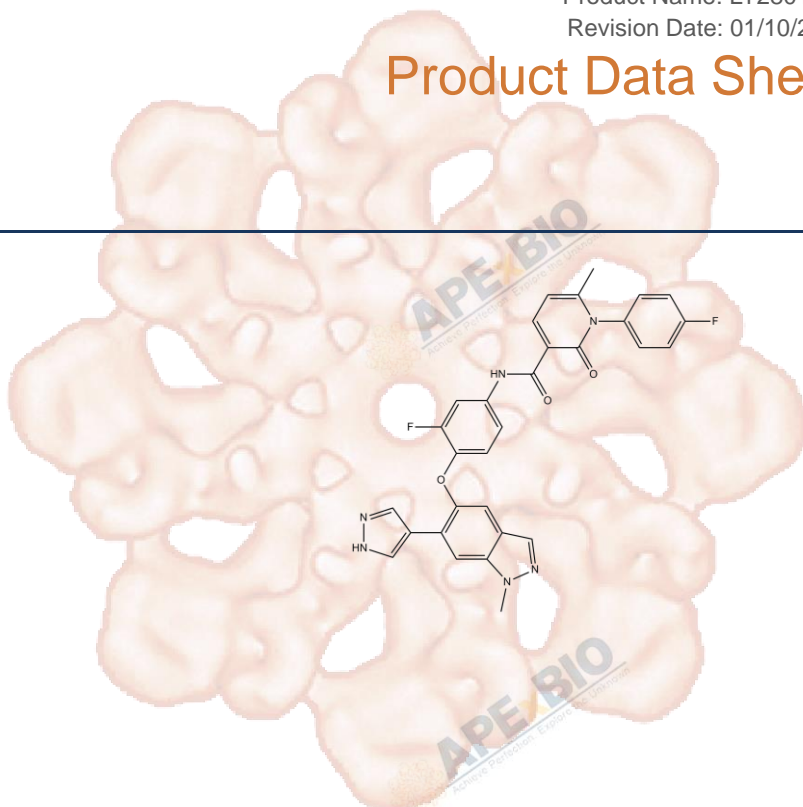


Product Data Sheet

LY2801653

Cat. No.:	A3573
CAS No.:	1206799-15-6
Formula:	C30H22F2N6O3
M.Wt:	552.53
Synonyms:	LY-2801653; LY 2801653
Target:	Tyrosine Kinase
Pathway:	c-MET
Storage:	Store at -20°C



Solvent & Solubility

≥27.65 mg/mL in DMSO; insoluble in H₂O; ≥5.02 mg/mL in EtOH with gentle warming and ultrasonic

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	1.8099 mL	9.0493 mL	18.0986 mL
	5 mM	0.3620 mL	1.8099 mL	3.6197 mL
	10 mM	0.1810 mL	0.9049 mL	1.8099 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary

MET inhibitor

IC₅₀ & Target

2 nM (Ki) (c-MET)

In Vitro

Cell Viability Assay

Cell Line: Human NSCLC H441 cell lines

Preparation method: The solubility of this compound in DMSO is > 27.7mg/mL. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Reacting conditions: 0.01-10 μM, 2 h

	Applications:	In H441 cells, LY2801653 inhibited phosphorylation and downstream signaling of MET leading to a blockage of MET pathway. LY2801653 also inhibited proliferation, growth, migration and invasion of H441 cells.
In Vivo	Animal experiment	
	Animal models:	Six-week-old female severe combined immunodeficient (SCID) mice
	Dosage form:	Oral administration, 20 mg/kg
	Applications:	LY2801653 inhibited growth of tumors, significantly inhibiting cells mitotic and angiogenesis. Treatment with LY2801653 reduced A549-luc-C8 tumor growth in SCID mice significantly comparing to control group and no change in body weight.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

- [1]. Wu W, Bi C, Credille K M, et al. Inhibition of Tumor Growth and Metastasis in Non-Small Cell Lung Cancer by LY2801653, an Inhibitor of Several Oncokinases, Including MET[J]. *Clinical Cancer Research*, 2013, 19(20): 5699-5710.
- [2]. Kawada I, Hasina R, Arif Q, et al. Dramatic Antitumor Effects of the Dual MET/RON Small-Molecule Inhibitor LY2801653 in Non-Small Cell Lung Cancer[J]. *Cancer research*, 2014, 74(3): 884-895.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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