

Product datasheet

IACS-010759 α b286961

1 References

Overview

Product name	IACS-010759
Description	A potent and selective Oxidative Phosphorylation Inhibitor
Biological description	A potent and selective Oxidative Phosphorylation Inhibitor ($IC_{50} < 10$ nM) with potential antineoplastic activity. IACS-010759 robustly inhibits proliferation and induces apoptosis in models of brain cancer and acute myeloid leukemia (AML) reliant on OXPHOS, likely owing to a combination of energy depletion and reduced aspartate production that leads to impaired nucleotide biosynthesis.
Purity	$\geq 98\%$
General notes	This product is manufactured by BioVision, an Abcam company and was previously called B2231 IACS-010759. B2231-1 is the same size as the 1 mg size of ab286961.
CAS Number	1570496-34-2

Properties

Chemical name	5-[5-methyl-1-[[3-(4-methylsulfonylpiperidin-1-yl)phenyl]methyl]-1,2,4-triazol-3-yl]-3-[4-(trifluoromethoxy)phenyl]-1,2,4-oxadiazole
Molecular weight	562.57
Molecular formula	$C_{25}H_{25}F_3N_6O_4S$
PubChem identifier	86711931
Storage instructions	Shipped at 4°C. Store at -20°C. Store In the Dark. Store under desiccating conditions. This product is air and light sensitive and impurities can occur as a result of air oxidation or due to metabolism by microbes.
Solubility overview	Soluble in DMSO to 75 mM
SMILES	<chem>CC1=NC(=NN1CC2=CC(=CC=C2)N3CCC(CC3)S(=O)(=O)C)C4=NC(=NO4)C5=CC=C(C=C5)OC(F)(F)F</chem>

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors
- Abcam biochemicals are novel compounds and we have not tested their biological activity in house. Please use the literature to identify how to use these products effectively. If you require further assistance please contact the scientific support team