



Rabusertib

Cat. No.:	OB0225LY-0392
Appearance:	Solid
Purity:	≥99%
Identity:	Confirmed by NMR and HPLC.
Size:	5 mg; 10 mg; 25 mg; 50 mg; 100 mg; 200 mg

This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	Rabusertib is a small molecule drug that acts primarily as a protein kinase inhibitor, targeting the proliferation and survival signaling pathways of tumor cells.
Synonym	911222-45-2; (S)-1-(5-Bromo-4-methyl-2-(morpholin-2-ylmethoxy)phenyl)-3-(5-methylpyrazin-2-yl)urea; 1-[5-Bromo-4-methyl-2-[(2S)-morpholin-2-yl]methoxy]phenyl]-3-(5-methylpyrazin-2-yl)urea; Urea, N-(5-bromo-4-methyl-2-(2S)-2-morpholinylmethoxy)phenyl)-N'-(5-methyl-2-pyrazinyl)-; (N-(5-bromo-4-methyl-2-[(2S)-morpholin-2-yl]methoxy}phenyl)-N'-(5-methylpyrazin-2-yl)urea
CAS No.	911222-45-2
Compound CID	11955855
Formula	C ₁₈ H ₂₂ BrN ₅ O ₃
Formula Weight	436.3

Specification

Relative Density	1.461 g/cm ³
IUPAC Name	1-[5-Bromo-4-methyl-2-[(2S)-morpholin-2-yl]methoxy]phenyl]-3-(5-methylpyrazin-2-yl)urea
InChI	InChI=1S/C18H22BrN5O3/c1-11-5-16(27-10-13-8-20-3-4-26-13)15(6-14(11)19)23-18(25)24-17-9-21-12(2)7-22-17/h5-7,9,13,20H,3-4,8,10H2,1-2H3,(H2,22,23,24,25)/t13-m/s1



InChI Key	SYYBDNPGDKKJDU-ZDUSSCGKSA-N
SMILES string	<chem>CC1=CC(=C(C=C1Br)NC(=O)NC2=NC=C(N=C2)C)OC[C@@H]3CNCCO3</chem>
Stability	3 years in powder form.
Storage	Storage at -20°C.
Applications	Rabusertib can be used in tumor biology research to help understand the mechanisms of cell proliferation and the effects on specific signaling pathways.

Library Information

Targets	Chk; PDK
Receptors	Chk1; PDK1
Pathways	PI3K/Akt/mTOR signaling; Autophagy; Cell cycle/Checkpoint
Plate Number	AOCL-6
Plate Location	a7
Empty Location	a1-h1; a12-h12
Container	96-well plate
Formulation	10 mM DMSO
DMSO Max Solubility	4.36 mg/mL; 10 mM
Water Max Solubility	<1 mg/mL (insoluble or slightly soluble)
Ethanol Max Solubility	<1 mg/mL (insoluble or slightly soluble)