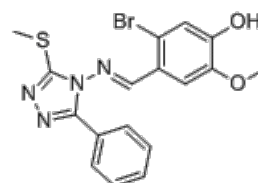


Product Name	: GO289
Synonyms	: GO-289; GO 289
Cat No.	: M15657
CAS Number	: 694522-87-7
Molecular Formula	: C ₁₇ H ₁₅ BrN ₄ O ₂ S
Formula Weight	: 419.30
Chemical Name	: 5-bromo-2-methoxy-4-(((3-(methylthio)-5-phenyl-4H-1,2,4-triazol-4-yl)imino)methyl)phenol



Description	: GO289 (GO-289, GO 289) is a potent and selective inhibitor of casein kinase 2 (CK2) with IC ₅₀ of 7 nM in in vitro kinase assays, shows minor effects on CK1δ and CK1α activity in vitro; GO289 showed only a moderate or minor effect on the activity of 59 kinases from a variety of classes, the second most affected kinase was PIM2 with an IC ₅₀ of 13 nM; caused dose-dependent lengthening of circadian period not only in Bmal1-dLuc reporter cells but also in Per2-dLuc reporter cells with a phase opposite to that of Bmal1-dLuc, inhibits phosphorylation of clock protein PER2 S693 in cells; strongly inhibits Caki-2, A498, and 769-P cancer cells, significantly reduces growth of mouse MLL-AF9 leukemia cells without effect on hematopoietic progenitor cells; shows effectivity on circadian period and reporter signal intensity in spleen explants of MLL-AF9 mice.
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Pathway	: Metabolic Enzyme/Protease
Target	: Casein Kinase
Receptor	: Casein Kinase
Solubility	: —
SMILES	: —
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Tsuyoshi Oshima, et al. Science Advances 23 Jan 2019: Vol. 5, no. 1, eaau9060. DOI: 10.1126/sciadv.aau9060.