

Product Name : Tripolin A

Synonyms : —

Cat No. : M22111

**CAS Number** : 1148118-92-6

Molecular Formula : C15H11NO3

Formula Weight : 253.25

Chemical Name : ----

Tripolin A is a specific non-ATP competitive inhibitor of Aurora A kinase(Aurora A and Aurora B with IC50 values of 1.5  $\mu$ M and 7  $\mu$ M, respectively)Tripolin A, a non-ATP competitive inhibitor.?Tripolin A reduced the localization of pAurora A on spindle microtubules (MTs), affected centrosome integrity, spindle formation and length, as well as MT dynamics in

Description : interphase, consistent with Aurora A inhibition by RNAi or other specific inhibitors, such as MLN8054 or MLN8237.? Interestingly, Tripolin A affected the gradient distribution towards the chromosomes, but not the MT binding of HURP

(Hepatoma Up-Regulated Protein), a MT-associated protein (MAP) and substrate of the Aurora A kinase.? Therefore Tripolin

A reveals a new way of regulating mitotic MT stabilizers through Aurora A phosphorylation.?

Pathway : Cell Cycle/DNA Damage

Target : Aurora Kinase

Receptor : Aurora A

Solubility : —

SMILES : Oc3cc(/C=C1\c2cccc2NC1=O)c(O)cc3

Storage : (-20°C)

**Stability** :  $\geq 2$  years

Reference :

1. Iliana A Kesisova, et al. Tripolin A, a Novel Small-Molecule Inhibitor of Aurora A Kinase, Reveals New Regulation of HURP's Distribution on Microtubules. PLoS One. 2013;8(3):e58485.