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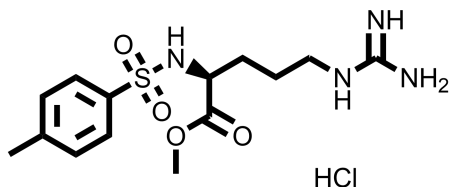
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## Ubiquitin Ligase APC/C Inhibitor – TAME

**Chemical Name:** (S)-methyl 5-guanidino-2-(4-methylphenylsulfonamido)pentanoate



Molecular Weight:	378.87
Formula:	C <sub>14</sub> H <sub>22</sub> N <sub>4</sub> O <sub>4</sub> S.HCl
Purity:	≥98%
CAS#:	1784-03-8
Solubility:	DMSO and water up to 100 mM
Storage	Powder: 4 °C 1 year DMSO: 4 °C 3 months -20 °C 1 year

### Biological Activity:

TAME is a competitive inhibitor of the ubiquitin ligase anaphase-promoting complex/cyclosome (APC/C). It promotes Cdc20 autoubiquitination and inhibits cyclin proteolysis in mitotic *Xenopus* oocyte extracts (IC<sub>50</sub> ~ 12 μM) and blocks cyclin degradation in interphase extract.

### How to Use:

**In vitro:** TAME was used at 50-200 μM final concentration in various in vitro assays.

**In vivo:** n/a

### Reference:

1. Zeng X, et al. Pharmacologic inhibition of the anaphase-promoting complex induces a spindle checkpoint-dependent mitotic arrest in the absence of spindle damage. (2010) *Cancer Cell*. 18(4):382-95.
2. Zeng X, et al. An APC/C inhibitor stabilizes cyclin B1 by prematurely terminating ubiquitination. (2012) *Nat Chem Biol*. 8(4):383-92.

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