

EG-011

## Chemical Properties

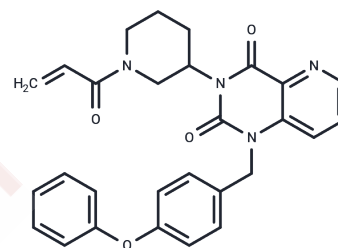
CAS No. : 2377113-41-0

Formula: C<sub>28</sub>H<sub>26</sub>N<sub>4</sub>O<sub>4</sub>

Molecular Weight: 482.53

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	EG-011 is a first-in-class and potent activator of Wiskott-Aldrich syndrome protein (WASP) that relieves autoinhibition of WASP and robustly induces actin polymerization, EG-011 exhibits selective antitumor activity in lymphomas, supporting its use in cancer biology research to investigate cytoskeletal regulation, immune cell signaling, and WASP-driven tumor vulnerabilities.
Targets(IC50)	Others
In vitro	In lymphoma cell lines (OCI-LY-19, REC1), EG-011 induced dose-dependent cell death (20-55%) at concentrations of 500 nM to 2 μM over 72 hours. Treatment (500 nM-5 μM) triggered actin polymerization in sensitive cells within 4-24 hours, while showing no cytotoxicity towards normal PBMCs even at high concentrations (1-10 mM) [1].
In vivo	In female NOD-SCID mice bearing Mantle Cell Lymphoma (MCL REC-1) xenografts, intraperitoneal (i.p.) administration of EG-011 (200 mg/kg, 5 days per week) delayed tumor progression. At the conclusion of the study, tumor volume in the treated group was 2.2-fold smaller than that of the control group (P < 0.001), without observations of systemic toxicity [1].

## Solubility Information

Solubility	DMSO: 100 mg/mL (207.24 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.0724 mL	10.3621 mL	20.7241 mL
5 mM	0.4145 mL	2.0724 mL	4.1448 mL
10 mM	0.2072 mL	1.0362 mL	2.0724 mL
50 mM	0.0414 mL	0.2072 mL	0.4145 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

E. Gaudio, et al. EG-011 IS A NOVEL SMALL MOLECULE WITH IN VITRO AND IN VIVO ANTI-TUMOR ACTIVITY AGAINST LYMPHOMA. Hematological Oncology Volume 37: 15th International Conference on Malignant Lymphoma Palazzo dei Congressi, Lugano, Switzerland, 18-22 June, 2019.

Filippo Spriano, et al. Abstract 1817: EG-011 is a first-in-class Wiskott-Aldrich syndrome protein (WASp) activator with anti-tumor activity. Cancer Res (2022) 82 (12\_Supplement): 1817.

F. Spriano, et al. The first-in-class WASP activator EG-011 is active in lymphoma and multiple myeloma cell lines resistant to FDA approved compounds. European Journal of Cancer 174S1 (2022) S3-S128.

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