

Product Name: EHop-016 Revision Date: 01/10/2021

10mg

2.3226 mL

## **Product Data Sheet**

# **EHop-016**

Cat. No.: B2219

CAS No.: 1380432-32-5 Formula: C25H30N6O

M.Wt: 430.55

Synonyms:

Target: Cell Cycle/Checkpoint

Pathway: Rho

Store at -20°C Storage:



≥25.6 mg/mL in DMSO with gentle warming; insoluble in EtOH; insoluble in H2O

**Mass** Solvent 1mg 5mg Preparing Concentration In Vitro Stock Solutions 1 mM 2.3226 mL 11.6131 mL 23.2261 mL 2.3226 mL 5 mM 0.4645 mL 4.6452 mL 10 mM 0.2323 mL1 1.1613 mL

Please refer to the solubility information to select the appropriate solvent.

# **Biological Activity**

Shortsummary	Rac1/Rac3 GTPase inhibitor,potent and specific	
IC <sub>50</sub> & Target	1.1 µM (Rac1)	
	Cell Viability Assay	
	Cell Line:	MDA-MB-435 and MDA-MB-231 metastatic cancer cells
	Preparation method:	The solubility of this compound in DMSO is >10 mM. General tips for obtaining
In Vitro		a higher concentration: Please warm the tube at 37°C for 10 minutes and/or
		shake it in the ultrasonic bath for a while. Stock solution can be stored below
		-20℃ for several months.
	Reacting conditions:	0–10 μM for 24 h

	Applications:	EHop-016 inhibited Rac activity and reduced Rac-directed lamellipodia formation in both MDA-MB-435 and MDA-MB-231 metastatic cancer cells.  Moreover, EHop-016 decreased Rac downstream effects of PAK1 (p21-activated kinase 1) activity and directed metastatic cancer cells migration.
In Vivo	Animal experiment	
	Animal models:	KITD814V-bearing mice model
	Dosage form:	2.5 μM; i.v. injection, for 45 days;
	Applications:	Treatment of KITD814V-bearing cells with EHop-016 significantly enhanced leukemic mice survival and delayed disease progression.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may
		slightly differ with the theoretical value. This is caused by an experimental
		system error and it is normal.

## **Product Citations**

1. Jones BC, Kelley LC, et al. "Dual Targeting of Mesenchymal and Amoeboid Motility Hinders Metastatic Behavior." Mol Cancer Res. 2017 Jun;15(6):670-682. PMID:28235899

See more customer validations on www.apexbt.com.

### References

- 1.Montalvo-Ortiz, B. L., Castillo-Pichardo, L., Hernandez, E., Humphries-Bickley, T., De la Mota-Peynado, A., Cubano, L. A., Vlaar, C. P. and Dharmawardhane, S. (2012) Characterization of EHop-016, novel small molecule inhibitor of Rac GTPase. J Biol Chem. 287, 13228-13238
- 2.Martin, H., Mali, R. S., Ma, P., Chatterjee, A., Ramdas, B., Sims, E., Munugalavadla, V., Ghosh, J., Mattingly, R. R., Visconte, V., Tiu, R. V., Vlaar, C. P., Dharmawardhane, S. and Kapur, R. (2013) Pak and Rac GTPases promote oncogenic KIT-induced neoplasms. J Clin Invest. 123, 4449-4463

### Caution

#### FOR RESEARCH PURPOSES ONLY.

#### NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

### **APExBIO Technology**

www.apexbt.com

7505 Fannin street, Suite 410, Houston, TX 77054. Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com



APE BIO

APE BIO

APE BIO

APE BIO

APE BIO

APE BIO